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1777

J. H. LAMBERT
SUPPLEMENTA TABULARUM
LOGARITHMICARUM
ET
TRIGONOMETRICARUM
AUSPICIIS
ALMÆ ACADEMIÆ REGIÆ
SCIENTIARUM
OLISIPONENSIS
CUM VERSIONE INTRODUCTIONIS
GERMANICÆ IN LATINUM SERMONEM,
SECUNDUM ULTIMA AUCTORIS CONSILIA AMPLIFICATA.
CURANTE
ANTONIO FELKEL.



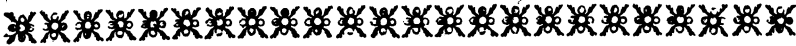
OLISIPONE
EX TYPOGRAPHIA REGIÆ ACADEMIÆ
SCIENTIARUM.
ANNO MDCCXCVIII.
Permissu Regio.

*Grandia jam pretio, jam mole, volumina terrent,
Copia mole nucis multiplicata juvet.*

ARTIGO
EXTRAHIDO DAS ACTAS
DA
ACADEMIA REAL DAS SCIENCIAS
Da Sessão de 5 de Outubro de 1796.

DETERMINA a *Academia Real das Sciencias*, que as Taboadas de J. H. Lambert para servir de Suplemento ds Taboadas Logarithmicas e Trigonometricas, as quaes lhe foram apresentadas por Antonio Felkel com a Traducção Latina da sua Introducção e explicações, sejam impressas á custa da Sociedade, e debaixo do seu privilegio. Em fé do que assignei a presente Certidão. Lisboa 3 de Abril de 1798.

FRANCISCO DE BORJA GARÇAÕ STOCKLER
Secretario.



PRÆFATIO INTERPRETIS.

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Immortalis J. H. *Lamberti* memoria per orbem litteratum vulgatissima, gentibus in extrema Occidentis orafitis pridem innotuerat ex versionibus diversorum ejus Operum Gallicis. Unum tamen eorum magis illustre operam fefellit Bibliopolarum textu suo Germanico præmissio; nempe: *Supplementa Tabularum Logarithmicarum* &c. Quod cum primariis Mathematicum Cultoribus Regiæ Academiæ Scientiarum Olisiponensis innotesceret, non dubitaverunt, Rempublicam litteratam hac accessione amplificare, dando mihi in commissis, ut versionem illis propositam continuatam usui publico aptarem.

Quam provinciam tanto majori propensione in me suscepi ob personalem erga cl. hunc Virum affectionem, qui me postremis vitæ suæ annis litterarum suarum commercio honoravit; quamvis præmatura morte abreptus laborum ejus consilio susceptorum triumphum videre non potuerit.

Interea consecutus eam conatum meorum palmam, quæ in fine Tom. V. *Commerci litterarii Lambertini* publicam meruit lucem, non destiti prosequi quædam objecta illius votis expetita ac consiliis accomodata; quæ proinde mihi jus quoddam primarium vindicant, in aliquas hujus Operis partes mutandas, amplificandas aut substituendas.

Quo tamen loco habenda sint jura ac merita, quibus in arenam tantis Heroibus illustratam descendi, brevis laborum meorum perlustratio extra dubium ponere debet. Non repetam hic, quæ dicto loco de ratione studiorum meorum mathematicorum referuntur. Ne tamen cœco quodam impetu affectasse videar jura ab aliis quæsitæ, breviter referam, quæ stratis his viis consecuta sunt, contentus

tus limitibus Operis, cujus *notitiam præviam* gratissimam fore judicavi scientiarum mathematicarum Cultoribus; missis aliis.

Tardum studiorum meorum mathematicorum inikium anno ætatis 35, et quædam memorandi ac imitandi difficultas longe a conatibus meis removerant spem, cum magnis ingeniis de principatu contendendi in sublimioribus ac methodicis hujus scientiæ gradibus. Quare contractis velis, secutus naturalem quandam inclinationem propriis armis contendendi, inhæsi subsidiis quibusdam pro usu aut delectamento desideratis, ductus tamen judicio (ne dicam præjudicio): *Ab aliis infecta ab eorum consiliis ac methodis non esse repetenda*; præsertim ubi ad summa enitendum est, usus Proverbio: *Aut Cæsar aut nihil*; propriis itaque viis ac nervis nitendum, ut *maximum* quidquam aut obtineatur, aut omnino omittatur.

Igitur persuasus, non paucas *leges relativas* numerorum formulis solutariis hucusque inaccessas, virorumque veritatibus sublimioribus distentorum conatibus intactas, numerorum homogeneorum juxta se positione, elementaribus adeo conatibus reddi posse pervias; formulis communibus haud anxie quæsitis, numerorum immensam rimatus sum congeriem.

Quo intuitu Cl. L. *Euler* illustrem materiam mihi suggestit in suæ *Algebrae Lundi* anno 1768 impressæ principio, ubi difficultatum meminit *Factores* magnorum numerorum evolvendi. Extemplo missis libris tardisque Scholasticorum viis ad *Tabulas Factorum* consuetudine majores construendas me composui, confecto paucis diebus instrumento, cujus ope me victorem omnium difficultatum et Computatorum quocunque æmulantium fore non dubitavi; basimque impressam pro aliquot millionibus procuravi. Accidit hoc Octobri 1775, tempore scilicet feriarum.

Obtentis subinde *Supplementis* hinc Lambertinis mirum in modum confirmatus sum in hoc proposito, lecto sine Introductionis suæ; litterarumque commercium inivum cum Viro clarissimo.

Quo in negotio ne conamina aliorum unita, aut deliberationes jam superflue moram aut præventionem causerent,

rent, oppressi omnes, absolutis una manu duabus millionibus spatio 16 mensium, expositisque præter consuetudinem aliorum omnibus cujusvis numeri Factoribus; subministrante pro typo, sine mora incepto impensas, Imperatore Josepho II.

Effectus supra omnium fidem fuit, doloque extraneorum centro eruditionis propiorum prævalente desistendum a typo ad 408000 progresso, reconditis Tabulis in ærario Principis.

Cognita tandem methodi meæ præstantia anno 1784 a diversis Academicis extraneis præprimis *Berolinensibus*, concurrentibusque in partem Operis reformati (nomine: *Tabule Factorum redivivæ*) nec recepto primo Originali ad hunc finem necessario, anno 1785 computavi pro secunda vice, spatio temporis angustiore *Tabulas Factorum* usque ad septuplum impressarum, seu ad limitem 2,856.000. Et hoc intuitu certum est, me prope 5 Millionum computatarum auctorem extitisse.

Verum quantum ego sensi opem Tabularum ad limites tam remotos progredientium, tantum territus fui ab incommodis tanti voluminis, et a manifesta impossibilitate hoc typis vulgandi. Quare propositum integras decem Miliones finiendi semper dilatum mansit. Deposito interim, anno 1791 vocatus et abiens Olisiponem, tanto pignore in manibus Mathematicorum Pragensium, tanto magis ægre tuli jacturam vigiliarum secundarum.

Senferam hoc incommodum jam ante secunda molimina; quare omni contentione adlaboravi, ut conderem opus quoddam portatile, cujus ope minimo temporis dispendio evolvi possent Divisores numerorum non impressorum. Verum diversis tentaminibus jam in molem, jam in operam divergentibus, prætuli onus Tabularum completarum. Urgente vero jam tertia vice necessitate, nodum tandem feliciter extricavi feriis autumnalibus anno 1793, et mensibus subsequenibus, constructis 15 basibus in tot foliis, quarum ope evolvuntur Factores omnium numerorum infra 24 Miliones, Factoribus tamen minimis non excedentibus 400.

Verum hæud pridem finivi methodum extendendi Factores

tores eodem spatio folii ultra 1000; et Tubulas ultra 100 Milliones, aucto basium numero ad folia 65; referatis quolibet folio Factoribus numerorum 1,536,000.

Talibus subsidiis armatus progredi potui ad alias inquisitiones extraordinarias; quarum præcipuæ erant *Series Fractionum decimalium* (mihi potius *n* malium) pertractatarum ab Academicis Berolinensibus, aliisque illustribus Mathematicis temporum antiquorum, in *Memorialibus* de 1771; quas primum cognovi ex Cl. *Hindenburgi Nova Methodo indagandi Proprietates numerorum equali lege progredientium ope Numerationis aut Dimensionis. Lipsiæ* 1776.

Verum aspernatus nomen systematis *Decimalis* et cujuscumque *particularis*, refugiendum putavi ad systema *indefinitum* seu *universale*; nisi pridem inventis denuo insudare congruum videretur.

Quare constructa quadam *Arithmetica universali in numeris*, (adjecta jam tum anno 1778 in titulo intentione speciali: *Ad inveniendas diversas leges, proprietates et arcana numerorum*) diversa detexi de seriebus etiam decimalibus antea non observata, viamque ostendi: *Fractiones periodicas cujuscumque systematis immediate transferendi in systema quodcumque diversum*. Quam materiam Societas Eruditorum Pragensium, tamquam inventionem prorsus novam suis inseruit Tractatibus anno 1785, præmio mihi oblato. Opusculum vero, seu Arithmeticam universalem pro basi substructam alia occasione imprimendum commendavit. Quod quamvis temporum injuria periverit, resurget propediem adæquatus, ubi opportunum fuerit.

Verfatis hac occasione denuo in omnes partes *legibus periodicis Fractionum*, non satis congruum visum est intuenti seriem Quotorum articulatim subsequentium, in qua eadem signa temere quodammodo sparsa, sine distinctione notabili toties fere recurrunt, quoties Denominator systematis (nobis 10) continetur in Divisore suo, seu duce seriei. (Sic v. g. in serie de 97 quodvis signum decimale numerorum fere decies recurrat necesse est.).

Quare conversis studiis ad leges tandem devenitum est, ex unica serie completa dati numeri primo intuitu, ac
sine

sine omni confusione deducendi quamvis seriem seu completam sive incompletam cujusque alius numeri in systema vocati. Quare *Series*, seu *Periodos Systematum* compellare placuit.

Quo in negotio nequis jam porro operam perdat, assignata et computata sunt pro omnibus numeris primis ultra 1000 Systemata Denominatoris minimi completam seriem producentia, a quibus omnia reliqua dependent. Simili prorsus ratione decisum est de legibus Serierum numerorum compositorum ac potentiarum plurimum diversis ab illis, et inter se.

Horum speciminum, præter dicta, vix aliqua fragmenta in aliorum manus devenerunt, nec jam, ut dissoluta catenæ membra, defectu subsidiorum subsequentiū majoris emolumenti, in præsentia hujus operis quidquam valere possunt. Quare sponte sua ad præsentem fontem confluunt, lucem sibi mutuo spargentia.

Ac proinde fragmenta antea multum voluminosa, nunc vero ad formam compendiosiore[m] redacta, tanta approbatione accepta in forma sua primaria, Probatorum suorum fidem coronaverunt consequentiis semper majoribus, quarum series inexhausta videtur. Cujus rei illustræ exemplum est, quod sequitur.

Exantlatis his laboribus, et legibus serierum universalibus tam feliciter definitis, facillimus ac lucidissimus regressus ad Fractiones fuit. Et quia frequentissimi sunt casus, ubi requiruntur celerrimæ reductiones, comparationes et applicationes qualescunque fractionum tum naturalium, tum artificialium, numerorumque rationes inter se; computatæ sunt Tabulæ Fractionum naturalium omnium, vel quod idem est, exponentes rationum quorumque numerorum duorum primorum inter se intra limites 1 et $\frac{1}{203}$, vel si mavis intra 200 et 1, in decem notis decimalibus, et congestæ in ordines, continentes 12205 tales casus tamquam omnes possibiles, cum instructione ac subsidiis de usu earum accommodatissimo. Cujus rei specimèn nolumus detinere appetentibus.

Ne tamen hoc accrementum gravaret primos emptores, contenti fuimus cum quarta parte infra 1 et $\frac{1}{100}$, nomine *Supplementi secundi ad Tabulas mathematicas*: ut pluribus ostendit Instructio particularis de usu hujus supplementi.

Verum quantum natura faveat subsidiis ex ipso fonte haustis diligentiore harum tabularum inspectione repertum est. Quippe earum ope non solum series decimales &c. ad quemvis terminum continuantur facillime immediate, et absque ullo errandi periculo; verum ipsa adeo Producta et Quota jam immediate jam mediate expressa reperiuntur, ut ita cum Logarithmis artificialibus in contentionem venire videantur.

Quid multa? Messis uberrima, maturrima, prorsusque nova per incultum quemdam numerorum campum diffusa se offert scientiarum mathematicarum cultoribus. Ex fragmentis recensitis rite ordinatis itaque consurget (immo jam confectum, typoque accommodatum est, deficiente solum introductione, partiumque quarumdam nexu) Opus quoddam integrale, quod *ordiens ab evolutione Factorum numerorum* infra 24 (aut omnino 100) Milliones transit ad *Arithmetica universalem tanquam basin*, dominans *Divisoribus periodicis* ratione potente, efficaci ac evidente; Inde a *Traductione Periodorum specialium* inter se ad *leges periodicas universales*, sine restrictione ad systema speciale: Legibusque periodicis ita stabilitis redit ad *valores quantitatum numericarum tum respectivos*, tum *absolutos*; sternens viam ad *Quota* et *Producta* ex ipsis numerorum visceribus prodeuntia &c.

Celerrimus horum conaminum progressus, et continuationis facilitas; passibus jam ex omni parte definitis ac dimensis, secundum præ se tulit emolumentum, quod est incredibile Tabularum accuratio, quæ rarissime obtinetur in tabulis congestis a diversis computatoribus, aut temporum ac locorum vicissitudinibus distractis.

Sed ne pluribus persequar commoda, quorum copia immensa videtur, satis erit, perruptis quodammodo numerorum repagulis hic pandi divitias novas ab indigestis numerorum massis hætenus inseparabiles.

Quo in negotio non parum debetur benignæ attentioni et generositati R. Academiæ Scientiarum superius celebratæ, præ primis vero quibusdam Mathematicis illius membris, qui collatis ad illius consummationem subsidiis, nullo partium propriique commodi studio retenti animad-

ver-

versionibus perspicacissimis operis ad finem suum conformitatem promoverunt.

Totum, hoc Opus, nisi ejus continuatio tam facilis quam infallibilis votis majoribus responderit, cum ipsa ampliandi methodo tribus Alphabetis in folio comprehendi poterit.

Quibus ita constitutis, speramus a Viris potentibus, lucem mathematicam semper majorem anhelantibus provi- sum iri, ut venam tam uberem proprietatum numericarum recentissime apertam quam primum publice promanare faciant.

Sed jam redeo ad scopum mihi propositum reddens textum tanti Viri absque ulla mutatione, ut innotescat tanto loculentius, quo fundamento nitantur mutationes a me factæ in partibus quibusdam Operis, quæ fere redeunt ad Factores omnes omisso solum maximo expositos, et quædam typi compendia, relictis signis numerorum iterato recurrentibus. Reliqua sparsis sub litteris Græcis Annotationibus comprehendi; ut temporum commoda suis locis inserta lectione successiva tanto penitius colligi possint. Si- quam hac ratione præstitero satisfactionem Scientiarum Mathematicarum Cultoribus, acquiescam; spe fretus laborum meorum imperfectiones ab omnibus excusatum iri, qui aut studiorum meorum impedimenta norunt, aut partem considerant, in qua tot annis quodammodo primus speculator extiti, quibusdam moliminibus haud parum extensis terminum positurus.

Latinitatis splendorem minus anxie quæsi, quam genuinum Auctoris sensum in Opere Euclideo. Data tamen opera traduxi Titulum alius Operis Germanici ejusdem Auctoris, aliquoties allegati: *Beitrage zur Mathematik* &c. per nomen *Additamentorum ad Mathesim*, quod idem magis proprie redderetur per *Supplementa*; nisi periculum foret *Opusculum* præsens cum altero confundendi.

Denique ne typus præsentis partis retardetur, reservamus quasdam adversiones pro Introductione Supplementi secundi subjiciendas.

PRÆFATIO AUCTORIS.

QUIA plurima, quæ de præsentè Tabularum Collectione mihi dicenda essent, in Introductione speciali pertracto; superest admonere, me in gratiam Extraneorum, in quorum manus devenient, Inscriptionem Tabularum Latino Idioma-
te expressisse. Hæ enim Inscriptiones illis sufficere possunt ad cognoscendum finem et usum; etiamsi propterea Instructio Germanica non sit futura superflua. Cæterum hæc Collectio systema quoddam format, quod perfectius formassem, si mihi adhibitis omnibus memoriæ subsidiis, omnia in mentem venissent.

Interea nonnullæ Tabulæ, v. g. illæ de Polygonis et Corporibus regularibus aliæque data opera omissæ sunt. Aliæ, v. g. Tabula de Triangulis sphæricis, non adhuc videbantur matura ad edendum.

Pari ratione etiam tales Tabulas, quæ ad subsidium calculi integralis servire possent, distuli.

Hæc omnia, præter illa, quæ porro in mentem venerint, aut etiam a Mathematicæ Cultoribus communicata aut proposita fuerint, ad ulteriora *Supplementa* occasionem dare poterunt.

Hoc modo adhuc durante typo adjeci Tabulam XLIV; quæ in multis casibus usui esse poterit. Pro accuratione typi omnis diligentia adhibita fuit.

I N D E X

Tabularum , et Articulorum in Præfatione correspondentium:

I. TAB. D ivisores Numerorum ab 1 usque 102.000 ; <i>Hæc Tabula declaratur Introductionis , §. 12.</i>	Pag. 1
II. <i>Multipla numerorum primorum usque 303. (Præf. §. 8.)</i>	70
III. <i>Numeri ex Primis facti. (Præf. §. 48.)</i>	72
IV. <i>Terminationes Quadratorum imparium. (Præf. ibid.)</i>	72
V. <i>Differentiæ duorum Quadratorum. (Præf. ibid.)</i>	72
VI. <i>Numeri primi. (de quibus agit Intr. §. 3. — 26.)</i> <i>Annotatio de Numeris primis</i>	73 115
VII. VIII. IX. <i>Dignitates Binarii , Ternarii , et Quinari. (Intr. §. 54. et 122.)</i>	106, 108
X. <i>Formule Logarithmica. (Intr. §. 72.)</i>	109
XI. <i>Numeri pro construenda Logistica. (Intr. §. 65.)</i>	109
XII. <i>Formule pro Log. (a⁺1) (Intr. §. 62. 66. 71. 61. 97.)</i>	110
XIII. <i>Log. hyperbolici de Lambert (Intr. §. 59. 61.)</i>	111
XIV. <i>Log. hyperbolici Potentiarum decimalium (Intr. §. 60. 61. 63.)</i>	112
XV. <i>Log. hyperbolici de Simpson (Intr. §. 60.)</i>	113
XVI. <i>Log. hyperbolici de Euler in 25 notis decimalibus cum Ba- fi Log. Brigg. (Intr. §. 66.)</i>	122
XVII. <i>Numeri formæ 2.^m 3.^m 5.^m 7.^m (Intro. §. 26. 66. 70.)</i>	123
XVIII. <i>Functiones hyperbolica (Intr. §. 74. 73.)</i>	124
XIX. <i>Sinus ternorum graduum. (Intr. §. 74)</i>	125
XX. <i>Relationes functionum circularium (Intr. §. 75.)</i>	127
XXI. <i>Triangula Rectangula. (Intr. §. 76.)</i>	130
XXII. <i>Relationes Cyclometrica (Intr. §. 77.)</i>	133
XXIII. <i>Longitudo arcuum pro gradibus (Intr. §. 78.)</i>	134
XXIV. <i>Formule Cyclometrica (Intr. §. 80.)</i>	138
XXV. <i>Abacus Sinuum (Intr. §. 80.)</i>	140
XXVI. <i>Abacus Trigonometricus (Intr. §. 81.)</i>	146
XXVII. <i>Formule Aequationum (Intr. 82. 85. et 122.)</i>	149
XXVIII. <i>Aequationes Cubica in formulis (Intr. §. 89.)</i>	150
XXIX. ——— in numeris. (Intr. §. 89. 93.)	151
XXX. <i>Omnia Aequationis Cubica genera. (Intr. §. 96. 99.)</i>	162
XXXI. <i>Formule Aequationum biquadraticarum.</i>	163
XXXII. <i>Functiones hyperbolica circularibus analogæ. (Intr. §. 97. 103.)</i>	164
XXXIII. <i>Declaratio precedentis Tab. per figuras (Intr. §. 97.)</i>	170
XXXIV. <i>Cifus aequationum biquadraticarum (Intr. 102. 105. 106. et 121.)</i>	170
XXXV. <i>Numeri Quadrati (Intr. §. 104. 106.)</i>	172
XXXVI. <i>Numeri Cubici (Intr. §. 4.)</i>	178

XXXVII.

I N D E X:

XXXVII. <i>Numeri figurati</i> (Intr. §. 112. 113.)	184
XXXVIII. <i>Formule Interpolationum</i> (Intr. §. 109.)	186
XXXIX. <i>Dignitates serierum infinitarum.</i> (Intr. §. 144.)	188
XL. <i>Dignitates partium centesimarum.</i> (Intr. §. 119.)	190
XLI. <i>Radices Quadraticæ numerorum infra 100 in 7 decimalibus.</i> (Intr. §. 123.)	196
XLII. <i>Radices Quadrata in Fractionibus naturalibus.</i> (Intr. §. 123)	197
XLIII. <i>Formule Aequationum radicalium.</i> (Intr. §. 123)	197
XLIV. <i>Coefficientes terminorum duarum serierum reducti in Fractiones decimales.</i>	198

Quædam Annotationes Speciales in Introductione.

<i>De Tabulis Mathematicis in genere.</i>	Pag. XIII
<i>Inventio omnium Divisorum §. 3. nota 4.</i>	
<i>Ufus Factorum evolutorum. §. 12.</i>	
<i>Quædam proprietates numerorum primorum. §. 17.</i>	
<i>Quædam leges systematum specialium. §. 16 nota λ:</i>	
<i>Quædam Animadversiones super Divisores numerorum. §. 27 . . . 44.</i>	
<i>De Dyadica Leibnitiana. §. 45. 47.</i>	
<i>De systematis numerandi in genere in notis ad §. 45. etc. π ρ.</i>	
<i>De charactere speciali numerorum primorum §. 51. 53. et notis τ υ φ:</i>	

INTRODUCTIO.

HOC nomine declarabo Titulum, et occasionem Operis, aliosque intentus ad dispositionem Operis pertinentes.

Qui Mathesim non solum addiscunt, verum etiam applicant, experientia sciunt, esse numeros, rationes, formulas, et computationes, quæ ideo, quod sæpius occurrunt, semel pro semper confici, et conservari merentur; ut operæ parcatur, ea multoties inveniendi, et computandi de novo. Hæc est ratio, quod in omnibus Matheseos partibus, quidquid in Tabulas redigi potuit, Tabulis exhibeatur. Pythagoras cum Abaco suo initium fecit; et exinde usque in hodiernum diem numerus talium Tabularum ita increvit, ut simul sumptæ complures Foliantes impleturæ essent; neque dubium est, illas porro auctum iri.

Interim dividi possunt in duas classes generales. In primam classem referendæ sunt eæ Tabulæ, quæ *serviunt singulis Matheseos applicatæ partibus seorsim*. Inter illas Tabulæ Astronomicæ quasi unicæ sunt, quæ seorsim eduntur, reliquæ in iis Scientiarum specialium Tractatibus occurrere solent, ad quas referuntur. Prætereo hic singulas, quia solum de altera classe generali tractaturus sum. Hæc comprehendit eas Tabulas, quæ sine discrimine in omnibus Mathematices partibus usum habent, et ad *Mathesim puram* referri debent.

Harum notissimæ sunt: Tabulæ numerorum quadratorum et cubicorum, et præter illas præprimis Logarithmicæ et Trigonometricæ.

Numeri quadrati in *Ludolphi* Tetragonometria ab 1 usque 10000 satis accurati. Numeros quadratos et cubicos ab 1 usque 12000 exhibuit *Buchnerus*, sed plenos errorum. Tabularum Logarithmicarum et Trigonometricarum *Shervinus* et *Gardiner* tam accuratatione quam commoditate tradiderunt præstantissimas.

Præter istas *Joncourtius* edidit Tabulam numerorum Trigonaliū, quorum utilitas haud ampla est. Meliores utilioresque forent eæ Tabulæ, quæ numeros figuratos in genere ad ampliores limites exhiberent.

Hæc tabulæ æstimantur præprimis commoditatis causa, quia numeros sæpius computandos jam factos exhibent. Restat autem Tabula, ubi usum habet, multo magis necessaria. Hæc est *Tabula Divisorum seu Factorum numerorum*. Non habetur adhuc regula generalis dignoscendi, an numerus præpositus primus sit, nec ne. Quoties itaque necesse est, numerum datum in suos Divisores resolvere, gratissimum est, eum evolvere in Tabula, ejusque Divisores exscribere posse.

Non

Non repetam hic, quod in secunda Parte *Additamentorum ad Mathesim* hac de re protuli. Monstravi ibi, quam compendiose tales Tabulæ disponi possint, proponens in latere unius folii Tabulam Factorum ab 1 usque 10200. Proxima sequela fuit, hac ratione Foliantem de non amplius, quam 50 plagulis exhibere posse Divisores omnium numerorum per 2, 3, 5 non divisibilibus ab 1 usque 1,020,000 α) Sciebam tum de Tabulis *Pellii* sollum hoc, quod *Pœtius* in sua *Arithmetica* refert; et contentus Computatione *Pœtii*, ei solum dedi dispositionem compendiosorem. Ostendi postea Tabulam ante typum D. de la Grange; qui pariter nihil præterea sciens, desideravit typos hujus Tabulæ ad suos correspondentes transmittendos.

Retardato interea typo D. de la Grange paulo diligentius inquirens invenit Tabulam *Pellii* usque ad 100,000 ac proinde decies extensionem, quam *Pœtii* et *Anjemæ*, contentam tam in *Dictionario Encyclopedico*, quam in *Lexico Harrisii* Scientiarum et Artium. Et evolvens amplius opera *Wallisii*, inveni ibi errores typi 30, quos *Wallisus* in Tabula *Pœtii* annotaverat, in *Pellii* annotatis omissos. *Wallisus* credidit, has Tabulas jam penitus esse emendatas. Haud certus sum, an *Wallisus* omnes numeros de novo computaverit; neque adeo, an ambo hæc Lexica contineant omnes has correctiones.

Inveniebantur in fine *Algebræ Pellianæ*, quæ referente *Wallisio Thomas Brankerus* annuente *Pellio* ex Germanico in Gallicum traduxit et 1668 edidit Londini. Hoc opus numquam vidi. Disposita proinde Tabula sicut existit in *Dictionario Encyclopedico* in dictam formam compendiosam, inveni præter errores a *Wallisio* expositos adhuc fere 60 alios, propter ordinem mutatum facile apparentes. Plurimi consistebant in eo, quod nota numeri 3 permutata esset cum littera *p*, quæ numerum primum indicabat; et hoc poterat provenire de Manuscripto minus legibili. Nam et in *Dictionario Wallisii* occurrunt similes permutationes. β)

α) Ignarus horum consiliorum (ordine enim duobus fere mensibus stabilito, horum Supplementorum copia mihi primum facta est &c.) cum A. 1775. m. Octobri molestas Factores exponendi vias pertractus, compendia calculi evidenter brevissima inquirerem: non solum inveni formam omnes divisores numerorum excepto maximo, ab 1 usque 1,008,000 in spatio 42 plagularum repræsentandi, verum etiam seipsa opus spatio 16 mensium usque ad 2,016,000 confeci, annoque 1785 (animatus applausu diverforum Academicorum) ad 5,000,000 usque continuavi. Vide *Commerc. litter. Germ. Lamberti*. Tom. V. Consilium annis subsequen- (1793-94) feliciter mutatum Vid. *Prefat. interpret. et infra.*

β) Quam arduum sit, Opus numericum omni errore liberum sistere, apparet ex ipsa hac Divisorum tabula, in qua tanta tanti viri diligen-
Pel-

Pellius interea contentus fuit, cujusque numeri compositi minimum Divisorem exponere. Quo si dividatur numerus, quotus porro evolvendus est, ut appareat, an numerus porro divisibilis sit, nec ne. Et hoc intuitu ejus Tabula minus absoluta est, quam ea, cujus in II. Parte *Additamentorum* memini; etsi solum extendatur usque ad 10200. Et insuper difficilior est emendare errores typi, quam ubi omnes divisores exponuntur. γ .

Interea cum *Pellii* Tabulla multo melior sit quam nulla, ejusque Algebra, *Harrisii* Lexicon in Germaniarum, et *Dictionarium Encyclopedicum* in paucorum manibus habeatur; cumque compendiosa δ vi forma multo commodior sit; credebam per editionem Tabulæ Pellianæ me Mathematicis rem gratam facturum. Hæc Tabula hic a 100000 usque ad 102000 extensa est. Et par ratione annexui numeros primos ab 1 usque 101999. Illi ab 1 usque 100999 ex *Krügeri* cogitationibus super Algebrae sumpti sunt, possuntque cum illis in Tabula *Pellii* comparari. δ .

Krügerus eos acceperat a quodam *Petro Fager* scriptos, qui computatione eorum plurimum meritis esse putabatur, contentusque erat promisso, fore, ut typo publici usus fierent. Utilitas earum Tabularum non efficit omnia, quæ de his porro desiderantur. Et præprimis a tempore inventi calculi Universalis et Integralis aliæ requiruntur. Universalis finis talium Tabularum est, ut semel pro semper computetur, quod sæpius de novo computandum foret; et ut pro omni casu computetur, quod in futurum pro quovis casu computatum desiderabitur.

Hanc regulam sequenti ratione secutus sum; Scripsi numeros et formulas, quarum frequentem usum prævidi, ad paginas albas et folia occurrentia in Tabulis Trigonometricis *Vlacci*; et his non sufficientibus inserui folia nova, successu temporis porro impleta; deficiente jam spatio pro novis, etsi aliquas Tabulas ampliores porro distulerim. Tandem decrevi, ex dicta *Pellii* tabula, aliisque successive collectis formare quoddam systema typis vulgandum. Inde liquet, sine admonitione, titulum: *Supplementum ad Tabulas Logarithmicas et Trigonometricas* esse maxime adæquatum, præsertim cum hoc nomine semper plura subsequi possint.

Tabulæ præsentis jam referunt: *Divisores Numerorum*, Lo-

tia præcavere non potuit, quin adhuc γ errores tum calculi, tum typi irrepsissent. Verum cum (juxta notam α) media mihi suppetant ab erroribus omnino libera, dubium nullum est, has tabulas ante typum cum diversis formis collatas, jam nulli erroris suspicioni esse posse obnoxias.

γ . Status præsentium Tabularum reformatas omnibus postulationibus satisfacit; correctione accuratissima, etiamsi absit maximus divisor. Vide etiam inferius \S . 3. Nota n.

δ . In præsentii subsidiorum abundantia superfluum est ad talis revisiones recurrere.

garithmos, Rationes Trigonometricas, Extractions Radicum, Resolutiones Equationum, Rationes Serierum infinitarum, Interpolationes, Computationem aliarum Tabularum &c. atque ideo talia objecta, quæ versantibus in scientiis mathematicis quam frequentissime occurrunt.

Annotavi jam Tom. II. *Additamentorum* ad Mathesim, Tabulas Divisorum iterum iterumque de novo computatas. Hoc verosimiliter porro succedet. Quilibet enim sentit necessitatem possidendi tales Tabulas; et paucissimi sciunt, eas jam sæpius Typis vulgatas esse. Non omnino quærentur, nisi jam sciatur, in *Algebra Pellii*, in *Arithmetica Poëtii* cum Algebra parallela, in *Lexico Harrisii*, in *Dictionary Encyclopedico*. Et in tantum *Anjema* unicus est, qui tales Tabulas seorsim edidit. Interea rationem habeo existimandi, multos, qui emerunt *Algebram Pellii* aut *Poëtii*, eam emisse ob Tabulas annexas; sumptis forsitan solis Tabulis, neglecto Tractatu Algebraico. Hoc accidisse cum cogitationibus *Krügeri* ex pluribus exemplis rescio. Diversi Mathematici, quibus *Krügerus* vix aliquid novi dicere poterat de Algebra, neglectis cogitationibus servabant solum *numeros primos*. Sic v. g. eos inveni *Hage* in celebri licitatione de *König*. Et quamvis eos jam haberem in *Krügero* tamen comparavi denuo cum Tabulis *numerosum quadratorum* et *cubicorum Büchneri*. †

Dixi paulo ante, fore, ut tales tabulæ porro computentur; et hoc certo fiet, nisi tam communes reddantur, ut Tabulæ Logarithmorum, et Trigonometricæ. Fortasse titulus hic electus aliquid contribuere poterit. Saltem illi, qui *Placci*, *Wolfii*, *Shervini* et alias Tabulas possident, data occasione quærent: Qualia Supplementa hæc Tabulæ habere possunt? Mihi saltem hæc interrogatio statim in mentem veniret: An et ego emprurus essem? Eadein ratione, ut mihi Tabulas diversæ generis Logarithmicas et Geometricas, Ludolphi Tetragonometriam, *Büchneri* numeros Quadratos et Cubicos, *Krügeri* (vel potius ingenii Petri *Jægeri*) numeros primos, et multitudinem Tabularum Astronomicarum comparavi.

Cum interea longinquus labor sit, Tabulas Divisorum ab 1 usque 102000 denuo computare, requiram Dominos Journalistas et alios Auctores; quibus hoc Opusculum occurrit. Illi agent nempe amore hominum, facientes scientiis mathematicis rem gratissimam, si ad notificationem hujus Opusculi pro viribus contulerint. Qui-

†. Hæ rationes temporum successu evanuerunt; ipseque *Lambert*, si superstes esset, desideria sua collaborantium æmulatione non impleta, sed excessu elusa contestari deberet; non tam spectato tenore commercii sui litterarii, sed multo magis eorum, quæ nomine *Clavis Factorum* in Præfatione J. uberius exponuntur.

unquam enim animum habet, tales tabulas porro computandi, utilius laborabit, hoc, quod hic usque ad 102000 exhibetur, duplo ulterius aut ad decuplum continuando, quam computatum denuo computando. Vere desiderabile est, obtinere Tabulas Factorum usque ad 1.000.000 et amplius, in quibus divisores immediate evolvantur.

Viro tam indefesso ac strenuo promisi in meis *Additamentis*, saltem quod ad me attinet, eamdem immortalitatem, quam *Nep- per*, *Briggius*, *Wallacius*, *Iust. Byrgius*, *Rheticus*, *Pitiscus*, *Gardiner*, *Sherwin* Tabulis suis consecuti sunt: Contentus ero dispositione compendiosa () in *Additamentis* proposita, coactus applicare tempus meum ad alia Proposita et Disquisitiones; et facilius errans in vulgaribus, quam in complicatis calculationibus ultro supersedeo labore calculationum iteratarum. Jam Tabulas collectas secundum ordinem persequar, dispositionem describam, intentum definiam, usum in genere ostendam exemplis adductis. Hinc inde Annotationes affigam, quid de argumentis pro basi assumptis porro statui possit.

I.

Tabula Divisorum ab 1 usque 102000, Numerorum per 2, 3, 5 non divisibilium.

§. I.

Dispositionem hujus Tabulæ jam in *Additamentis* ad *Mathesim* Tomo II. descripsi. Fundatur in lege, quod omnes numeri per 2, 3, 5 non divisibiles, divisi per 30 sistunt 8 diversa residua, (per 300 — 80 &c.) Qua conditione factum, ut quavis pagina duplicata hujus Tabulæ exponerentur 3000 numerori (i. e. 800 expositæ conditionis F.). Et sic ostenditur in fine cujusvis paginæ, quousque ultimus numerus pertingat. Ita pag. 1. ad 3000, 2da ad 6000, 3tia ad 9000 extenditur, et quævis pagina progreditur amplius 3000 numeris.

§. 2. Jam quævis pagina secundum duo dimidia superius dividitur in duo quadrata; tertium vero quadratum inferius dividitur in duo dimidia. Super quovis quadrato ponuntur numeri repræsentantes centena; et in serie perpendiculari, latere sinistro exhiben-

() Ex dictis in Nota α). apparet, ignorantiam hujus Dispositionis (seu Typi), quæ videri posset possibilium compendiosissima, proprie causam extitisse Factores exhibendi per Tabulam alius generis, quæ præter compendium Typi, summa calculi compendia, cum naturali numerorum ordine summa inveniendi ac revidendi facilitate ac certitudine conjungit.

tur decades cum unitatibus adjungendæ dictis centenariis , ad re- præsentandum omnes numeros non multiplos de 2 ; 3 ; 5 .

§. 3. Dato proinde numero per 2 , 3 , 5 non divisibili , res- piciuntur centenarii illius superinscripti quadratis , et decades cum unitatibus in marginis sinistri serie perpendicularari . Et in concu- ssum seriei perpendiculararis centenariorum , et lineæ horizontalis de- cadum cum unitatibus , aut invenitur linea horizontalis , si nem- pe numerus datus est primus ; aut numerus , qui est minimus divisor numeri dati . 4 .

4. Ad unienda omnis generis Compendia , ipsius Auctoris postremis consiliis expetita , ut primo intuitu dignosci possit numerus et conditio divisorum , quos tamen expressos non capit spatii angustia : ita processimus servata Auctoris lege :

Omnis numerus divisibilis aut duos solum Divisores habet , aut plu- res . Si primum dividatur numerus datus per Factorem seu Divisorem ex- positum , qui minimus est ; et quotus erit alter confactor jam porro non divisibilis : quod neminem gravare potest . Quodsi vero incertum sit , an ille Quotus porro divisibilis sit , nec ne , pro omni casu requiritur nova evolutio , quod terque quaterque accidere potest , donec appareant omnes divisores simplices . Cui molestiæ ut pro semper occurratur , pro casu duo- rum Factorum contenti fuimus minimo exposito ; si vero plures sint di- visores , itidem exposito minimo per numeros , majores expressimus ita , ut spatium numquam deficiat , substitutis in locum numerorum litteris , quæ immediate jungi possunt numeris , sine permixtione , excluso ut plu- rimum maximo Divisore .

Jam si querantur Divisores numeri 94367 , ejus loco occurrunt signa 7 g h ; qui proinde primo intuitu cognoscitur esse quatuor Divisorem quo- rum tres expositi sunt : 7 . 13 . 17 . Litterarum enim valores uno intuitu cognoscuntur ex præsentate Tabula , quæ transcripta in folium 8^{vi} et af- fixa ultimæ paginæ Tabularum , absque minima mora exponi , et pro omni casu servare potest .

Interpretatio Litterarum Divisores representantium .

a , b , c , d , e representantes numeros primos 1 , 2 , 3 , 5 , 7 numquam oc- currunt . Cæteræ sunt :

f=11	m=31	s=59	y=83	E=109	L=149
g=13	n=37	t=61	z=89	F=113	M=151
h=17	o=41	u=67	A=97	G=127	N=157
i=19	p=43	v=71	B=101	H=131	O=163
k=23	q=47	w=73	C=103	I=137	P=167
l=29	r=53	x=79	D=107	K=139	Q=173

Altiores enim numeri excedentes $\sqrt{\frac{102000}{7}}$ in circumstantiis expositis lo- cum habere non possunt .

Jam divisõ dato numero $\frac{94367}{7} = 13481$; et $\frac{13481}{13} = 1037$; tan-

§. 4. Exemplis res clarior fiet: detur numerus 46547. Cum hic numerus cadat intra 42000 et 48000; evolvatur pagina, ubi ponitur infimo loco 48000. Jam quaeratur super quadratis numerus 465 centenariorum. Hi 465 reperiuntur in quadrati superioris columna sexta. Tum sumantur decades cum unitatibus 47 in sinistro margine. Tum progrediendo de centenariis 465 perpendiculariter deorsum, et de 47 horizontaliter dextrorsum, in concursu amborum invenitur numerus 89 tamquam minimus Divisor dati numeri 46547. Quo diviso per 89 invenitur quotus 523. Qui numerus evolutus occurrit pagina prima in quadrato posteriori infra 5 et de 23 dextrorsum; cujus loco occurrit linea horizontalis —; exquo liquet, numerum 523 esse primum; ac proinde numerum 46547 præter numeros 89 et 523 non habere divisorem.

§. 5. Detur numerus 64067, positus intra 63000 et 66000. Quaeratur proinde pagina, in cujus fine ponitur 66000; et tum parte posteriore Quadrati inferioris, infra centena 640, et linea horizontali de 67 collimando invenitur linea —; exquo colligitur, numerum 64067 Divisore perfecto destitui, id est, esse primum.

§. 6. Proposito eodem modo numero 77211, invenirentur quidem pagina de 78000 super quadratum inferius centenarii 772; absentibus tamen decadibus cum unitatibus 11 ex parte sinistra. Jam cum hic numerus in Tabula prorsus non occurrat, colligitur, eum per 2, 3 aut 5 divisibilem esse. Sed manifestum est, eum neque per 2, neque per 5 esse divisibilem, quia finitur unitate 1. Ac proinde per 3 divisibilem esse oportet. Peracta divisione, quotus est 25737. Hic quotus quaeritur pagina 27000, sed itidem absens; ex quo apparet, eum porro per 3 esse divisibilem. Peracta divisione quotus 8579, pagina 9000 evolutus in quadrato inferiore infra 85, et directione de 79 refert 23 ut divisorem minimum. Diviso proinde numero 8579 per 23, obtinetur Quotus 373. Et iste evolutus in pagina prima in Quadrato præcedente perducit ad lineam, tamquam numerum primum (seu indivisibilem), ac proinde cessat inquisitio. θ)

dem $\frac{1037}{17} = 61$, nobis sistit Factorem maximum 61, loci angustia exclusum.

Occurrentibus Potentis numerorum Exponentes adhibetur; qui jam exhausti omnes numeri Divisores, jam excludit minorem maximo. Exemplo sint numeri: $16807 = 7^5$; $57967 = 7^3 \cdot 2^2 = 7^3 \cdot 13^2$; et $32851 = 7^2 \cdot 19^2 \cdot (13)$, ubi excluditur 13. Quæ omnia conditionibus compendii, cum maximis, quæ locum habere possunt, emolumentis conjuncti satisfaciunt.

θ Quam commode hæc ambages per præsentem operis dispositionem evitentur, ex dictis in Nota (4) manifestum est.

§. 7. Allegavi postremum hoc exemplum ideo, quia non semper reminiscimur illico, priusquam evolvatur numerus in Tabulis, primo inquirendum esse, utrum per 2, 3, 5, et præprimis per 3 divisibilis sit? Potest tamen, ut patet ex exemplo adducto, examen omitti. Tum vero quando in Tabulis non invenitur numerus propositus, reminiscendum est, divisionem per 2, 3 aut 5 esse instituendam. Nam præter numeros pares etiam illi, qui cum 5 terminantur, omnesque per 3 divisibiles, Tabula exclusi sunt.

§. 8. Quia invento Divisore semper opportunum est, Divisionem ipsa peragere, adjuncti, exemplo *Pellii* Tabulam multiplicatoriam, quæ repræsentat quemque Divisorem in Tabulis occurrentem multiplicatum cum 1, 2, 3, . . . 9. Hæc Tabula itidem servire potest ad quasunque alias Divisiones, ubi divisor aut est numerus primus intra 2 et 313, (amplificata usque ad 401, quia servire potest ad novas bases construendas, restrictas ad folium simplex) aut numerus in tales numeros primos resolvableis. Sic v. g. dato numero 71677, invenitur pagina de 72000 in posteriore quadrato infra 716 et directione de 77 ejus divisor minimus 229. Jam evoluto in Tabula

multiplicatoria numero 229, mutatur Divisio peragenda in meram descriptionem et subtractionem. Jam si dividendum esset per numerum 71677, pari facilitate initio per 229, tum vero Quotus per 313 dividi posset; præprimis ubi declinando fractiones sufficit proprium Quorum exprimere partibus decimalibus.

$$229 \left| \begin{array}{r} 71677 \\ 687 \\ \hline 297 \\ 229 \\ \hline 687 \\ 687 \\ \hline 0 \end{array} \right. 313$$

Est proinde numerus
 $71677 = 229 \cdot 313.$

Respectu Multiplicationis æqualia compendia locum habere possunt. Interim latendum est, utilius futurum fuisse, si placuisset *Pellio*, omnes cujusque numeri Divisores exponere. 1) Cum vero nonnisi minimum exposuerit, necesseque sit tandem reliquos dividendo et repetita evolutione reperire; usus Tabulæ porissimum restringitur ad eos casus, ubi necesse est invenire Divisores sine respectu ad majorem aut minorem temporis jacturam. Sunt interim tales casus quam plurimi.

§. 9. Sic V. g. incidendo in calculatione in formulam . . .
 $\sqrt{(79^2 + 174^2)}$; facile invenitur $79^2 + 174^2 = 36517$. Ac proinde $\sqrt{(79^2 + 174^2)} = \sqrt{36517}$. Qui numerus quidem non est

1) Ex his dictis apparet, *Lambertum* sola necessitate permotum uno Divisore exposito contentum fuisse; ac proinde reformationem nota γ . expositam illius votis quam maxime consentaneam esse; præsertim cum modus hoc efficiendi compendio proposito prorsus nihil officiat.

quadratus, quia ultima ejus nota est 7. Interea invenitur $36517 = 13 \cdot 53 \cdot 53$; ac proinde $\sqrt{(79^2 + 174^2)} = 53\sqrt{13}$. Quæ formula multo simplicior est præcedente. Atque in calculo universali pridem more receptum est, formulas, quæ simplicius reddi possunt, reipsa ad minimam expressionem reducere.

§. 10. Eodem modo ratio $\sqrt{15463} : \sqrt{22743}$ non videtur rationalis. Cum vero $15463 = 47 \cdot 47 \cdot 7$ et $22743 = 3 \cdot 3 \cdot 19 \cdot 19 \cdot 7$

inveniat, apparet esse $\sqrt{15463} : \sqrt{22743} = 47 : 57$. Unde liquet operæ pretium esse, in talibus casibus evolvere Factores et facere tentamen.

§. 11. Tales casus et plures similes in calculo occurrunt quam frequentissime; præprimis, ubi Fractiones addendæ, subtrahendæ, multiplicandæ aut dividendæ proponuntur, aut ad eandem denominationem reducendæ sunt. In doctrina combinationum ac permutationum, atque inde in calculo verisimilitudinis itidem occurrunt casus, ubi numeri resolvi debent in Factores suos. Contingunt vero etiam tum, ubi calculatur per series infinitas, aut ubi illæ convertuntur, aut aliæ mutationes cum illis fiunt; aut ubi leges progressionis coefficientium inquiruntur &c. præcipue ubi necesse est per inductiones viam sternere.

§. 12. Jam etiamsi hæc Tabula 102000 non excedat, tamen habetur multitudo numerorum majorum, qui ad hos reduci possunt. Sic v. g., omnes numeri pares a 202000 usque 204000 in Tabula comprehendendi recte dicuntur; quippe qui divisi per 2 intra hanc Tabulam recidunt. Idem valet de Triplis infra 306000; et in genere de omnibus numeris majoribus, qui divisi per 4, 5, 6, 7, 8, 9 &c. Sistent Quotum integrum minorem 102000.

Ponatur, v. g. tempus de uno Novilunii usque ad alterum esse = 29 dies, 12 hor. 44 3". 12^m seu 153086592 Tertiorum. Hic numerus septies dividi potest per 2, et sic obtinetur.

$$\begin{array}{r}
 153086592 \\
 76543296 \\
 38271648 \\
 19135824 \\
 9567912 \\
 4783956 \\
 2391978 \\
 3) 1195989 \\
 29) \underline{398663} \\
 13747
 \end{array}$$

Potro ultimum dimidium divisibile est per 3. reddens quotum

Et hoc subtripulum porro divisibile est per 29, quo facto obtinetur.

Evoluto porro hoc numero in Tabulis, invenitur 59 minimus ejus divisor; peractaque divisione obtinetur Quotus 233. Ac proinde est numerus $153086592 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 29 \cdot 59 \cdot 233$.

Jam

Jam cum hora habeat 216000 minuta tertia, et . . .
 $216000 = 2.2.2.2.2.2.3.3.3.5.5.5$; obtinetur

$$153086592 : 216000 = 2.29.59.233 : 3.3.5.5.5$$

$$= 58.59.233 : 5.15.15.$$

Unde liquet, in horologio horas indicante applicari posse rotam gyrantem accurate 29 diebus, 14 horis, 44', 3'', 12'''.

II.

Tabula Numerorum primorum, ab 1 usque 102000.

§. 13. **Q**uamvis numeri primi ab 1 usque 102000 jam continentur in Tabula I. Divisorum Numerorum; tamen opportunum videbatur, eos seorsim in una serie imprimi; præpripis cum non sint de *Pellio*, sed de *Petro Jager*, ac proinde servire possint ad accuratorem Tabularum comprobendam. κ) Revera non apparet utilitas talis Elenchi. Interea *Petrus Jager* hos numeros primos pluris fecisse videtur, quam ipsos numeros divisibiles; quia non hos sed illos ad *Krugerum* transmisit. Sic quoque *Pœtius* initio edere volebat in opere superius citato sic dictum *Triangulum Primorum*. Ejus tamen intentio ea fuisse videtur, ut numeris in suos factores simplices resolutis illico videret, an Factores inventi vere essent simplices, id est, primi. Num vero in Vocabulo *Triangulum* recondatur speciale quoddam mysterium numerorum primorum, hucusque haud scio. Numeri enim primi haud quidemquam continere videntur figuræ triangulari analogum.

§. 14. Interea alia quæsiivi media, utendi numeris primis in exquirendis numerorum Divisoribus; et quidem facilius et brevius, quam obviis plerisque methodis. Nam ad inveniendos numeri Divisores ut plurimum datur instructio, ut instituat Divisio secundum ordinem numerorum primorum infra radicem quadratam dati Numeri. Hoc intuitu *Petrus Jager* sistendo numeros primos usque 101000, subsidia dedit, ut eorum ope omnes numeri infra 10.201.000.000 examinari possint, an habeant Divisores integros nec ne. Verum cum numeris majoribus nonnunquam plura millia

κ) Ratio hæc Elenchum numerorum primorum seorsim imprimendi prorsus evanuit; tum quia præsens Tabularum reformatio omnem erroris suspensionem removet, tum quia ipse *Lambert* utilitatem illius præfenti §. in dubium vocavit. Ratio tertia esse potest, quia spatium 45 paginarum objectis quibusdam probatæ utilitatis assignari potest.

tentaminum facienda forent, ad experiendum, nullum eorum esse Divisorem perfectum.

§. 15. Hinc quærebatur methodus compendiosior excludendi numeros primos, qui non sunt Divisores dati. Hoc intuitu, aliisque intentibus Theoriam numerorum diligentius indagavi. Quo in negotio quidem solum inveni fragmenta quædam sine magna spe; ea brevi in systema coalitura. *Euclides* pauca, *Fermates* solitaria plerumque abrupta indemonstrata fragmenta, *Eulerus* singulas partes a captu Tyronum nimium remotas continet.

§. 16. *Numerus primus* nomen nactus est, quia per alterum divisibilis non est. Sic distinguitur a divisibilibus, ut differentia apparere posset manifesta, et inde quilibet numerus primus videatur per se notus. Sed multum deest ad hoc. Nostri numerandi systema ita quidem compositum est, ut numeris pares et impares primo intuitu dignoscatur; verum ad dignoscendos numeros primos vix aliquid præstat. Et etiam si inventiretur aliquod numerandi systema ad hunc finem appositum, tamen semper reduci debet ad systema consuetum, cui adhæret habitus nostra practica. λ)

§. 17. Iterea ex notione numerorum primorum diversæ leges deductæ sunt. Sic v. g. *Cum numeri primi non habeant Divisorem, tanto minus plures numeri primi habebunt Divisorem communem.* Item: *Numerus primus non dividit nisi sua multipla; et quilibet numerus divisibilis multipulum est primorum.* Porro: *Duo aut plures numeri solum habent Divisorem communem, in quantum multipla sunt eorumdem primorum.*

Hæ et similes leges, in quantum pertingunt, usum habent bonum. Verum proinde non præbent criterium aliquod numerorum primorum. Iterea tamen perlequar quasdam leges hujus generis.

§. 18. *Si summa duorum numerorum sit primus, non habent divisorem communem.* Alias enim ipsa summa eodem numero divisibilis esset.

§. 19. *Hinc numerus primus dispersus in duas partes semper refert tales duos numeros, qui non habent divisorem communem.* Et vice

λ) Vix probabile est, aliquod numerandi systema speciale ampla pro hoc intentu oblatum subsidia. Vix enim aliquod systema speciale aliud Divisorum criterium continebit, quam pro numeris ejus Denominatori proximis. Ponatur Denominator qualiscunque systematis $\equiv n$; cognoscetur in illo Divisores $n, n-1, n+1$, eorumque subdivisores. Sic in systemate denominatoris 14 cognoscuntur numeri divisibiles per 1, 14, 15, item 2, 3, 5, 7, eodem modo, ut in systemate decadico divisibiles per 9, 10, 11; et cum his 2, 3, 5. Divisores ab his terminis magis remoti altiorem agunt radices, quæ solum ope systematum periodicorum eruuntur. *Vide Prefat. Int.*

versa

versa : Numerus divisibilis semper diversis modis dividi potest in duas partes, habentes Divisorem communem.

§. 20. Si differentia duorum numerorum fit primus, aut ambo sunt Multipla illius, aut non habent Divisorem communem. Ponatur enim præterea tertium esse divisorem; tum ille metiens ambos numeros, metietur quoque Differentiam, ac proinde numerum primum; quod implicat, &c.

§. 21. Si datus numerus subtrahatur a quibuscumque numeris primis, nullus Residuorum divisor est numeri dati, et nullus eorum habet cum illo Divisorem communem. Residuus enim numerus, seu hic divisor communis deberet quoque dividere numerum primum. Quod absurdum est.

§. 22. Subductis a numero dato omnibus numeris primis minoribus, qui non sunt ejus Divisores; Residua itidem neque divisores sunt illius numeri, neque divisorem communem habent cum illo. Hoc igitur per se jam valet de omnibus numeris primis majoribus dimidio dati numeri. Nisi ille divisibilis sit per 2, valet assertio de omnibus numeris primis non majoribus tertia parte numeri. Nisi pariter divisibilis sit per 3, valet Propositio de omnibus primis majoribus quinta numeri parte &c. In iisdem casibus valet assertio, sumptis duplis, triplis, quintuplis numerorum primorum.

§. 23. Hac rationem igitur sola subtractione multi numeri excludi possunt, qui non sunt Divisores numeri dati. Detur v. g. numerus 4606; summatur differentia illius a numeris proxime majoribus et minoribus.

4606		4606	
4621	15 = 3.5	4603	3
4637	31	4597	9 = 3.3
4639	33 = 3.11	4591	15 = 3.5
4643	37	4583	23
4649	43	4567	39 = 3.13
4651	45 = 3.3.5	4561	45 = 3.3.5
4657	51 = 3.17	4549	57 = 3.19
4663	57 = 3.19	4547	59
4673	67	4523	83
4679	73	4519	87 = 3.29
&c.	&c.	4517	89
		4513	93 = 3.31
		4507	99 = 3.3.11.
		&c.	&c.

Sic sola subtractione invenitur, numerum 4606 non esse divisibilem per numeros primos : 3, 5, 11, 13, 17, 19, 23, 29, 31, 37, 43, 67 &c., ac proinde solummodo supersunt 2, 7, 41, 47, 53; 61 &c. quibus divisio tentanda venit.

Potest.

Potest vero subtractio porro continuari. Sic enim invenitur v. g. $4606 - 4483 = 123 = 3 \cdot 41$. Quo facto numerus 41 quoque non est Divisor de 4606. Cum e contrario inter residua saltem tria multipla de 7 occurrere deberent, recte colligitur, numerum 4606 per 7 esse divisibilem. Et re ipsa invenitur $4606 = 2 \cdot 7 \cdot 7 \cdot 47$.

§. 24. Cæterum numeri primi non habent hoc speciale, ut perinde multi numeri excludantur, qui non sunt Divisores numeri dati. Cum enim hic agatur de numeris primis inter se, etiam locum habere potest sequens processus, quod exemplo demonstrabo.

Sint inveniendi Divisores numeri 1001. Cum hic numerus non sit divisibilis per 2, 3, 5, neque divisibilis est generatim per $2^m 3^n 5^p$. Tot modis igitur $\pm 2^m 3^n 5^p \pm 1001 = a$ computatum, 1001 non habet Divisorem communem cum a . Et cum hoc si computetur $\pm 2^m 3^n 5^p a^q \pm 1001 = b$, non habebit b divisorem communem cum 1001. Et hac ratione continuari potest argumentatio. V. g.

	1001	Differentia.
$2^{10} =$	1024	23
$2 \cdot 3 \cdot 5 \cdot 23 =$	690	311
$\sqrt{3} \cdot 311 =$	933	68 = 4.17
$2 \cdot 2 \cdot 3 \cdot 5 \cdot 17 =$	1020	19
$3 \cdot 7 \cdot 5^2 =$	225	776 = 8.97
$2 \cdot 3 \cdot 2 \cdot 5^2 =$	450	551 = 19.29
$2 \cdot 5 \cdot 97 =$	970	31
&c.		

Proinde numerus 1001 non est divisibilis per 2, 3, 5*** 17, 19, 23, 29, 31 &c. E contrario invenitur $1001 = 7 \cdot 11 \cdot 13$.

§. 25. Sequens Theorema itidem proponam exemplo. Sumatur de prioribus numeris primis, v. g. $2 \cdot 3 \cdot 5 \cdot 7 \cdot 11$ productum 2310. Hoc multiplicetur pro arbitrio per $2^m \cdot 3^n \cdot 5^p \cdot 7^q \cdot 11^r$, ita ut sit $2310 \cdot 2^m \cdot 3^n \cdot 5^p \cdot 7^q \cdot 11^r = a$. Nunc quadretur numerus primus proxime major 13; cumque hujus quadratum sit 169, notentur duo hi numeri

$$a + 169 = b$$

$a - 169 = c$. Jam sumptis differentiis ab omnibus numeris intra c, b cadentibus per 2, 3, 5, 7, 11 non divisilibus, et a ; omnes hæ differentię sunt numeri primi. Nam hæ differentię ex natura sua jam non sunt divisibiles per 2, 3, 5, 7, 11. Porro minores sunt quam 169. Cum vero intra 1 et 169 non cadat numerus divisibilis, non habens divisorem < 13 ; tum si qua inter dictas differentias divisibilis foret, deberet esse divisibi-

lis per 2, 3, 5, 7 aut 11. Verum hæc jam exclusæ sunt ; ac proinde omnes hæc differentiæ sunt numeri primi.

Habeatur v. g. $a = 2 \cdot 3 \cdot 5 \cdot 5 \cdot 7 \cdot 11 = 11550$; tum erit $a - 169 = 11381$; $a + 169 = 11719$.

Sumptis jam omnibus numeris intra 11381 et 11719 per 2, 3, 5, 7, 11 non divisibilibus , eorumque differentiis a 11550 , invenitur.

11550 | Diff.	11550 | Diff.
11537 | 13	11563 | 13
11533 | 17	11567 | 17
11531 | 19	11569 | 19
11527 | 23	11573 | 23
11521 | 29	11579 | 29
11519 | 31	11581 | 31
11513 | 37	11587 | 37
11509 | 41	11591 | 41
11507 | 43	11593 | 43
11503 | 47	11597 | 47
11497 | 53	11603 | 53
11491 | 59	11609 | 59
11489 | 61	11611 | 61
11483 | 67	11617 | 67
&c.	&c.

Cum proinde omnes numeri primi , incipiendo a 13 hic appareant , manifestum est , posita hac basi , iterum ope numeri 11550 omnes numeros per 2, 3, 5, 7, 11 non divisibiles intra 11381 et 11719 interjectos reperiri posse. Proinde si quærendi essent divisores numeri 11591 , jam ex eo , quod hic numerus excedit numerum 11550 quantitate numeri primi 41 ; colligi posset , 11591 per 2, 3, 5, 7, 11 non esse divisibilem. Et revera numerus 11591 invenitur = 67.173.

§. 26. Juxta hæc Theoremata prodesse poterit Tabula , qualem ego sub Nomine : *Numeri Formæ 2^m. 3^m. 5^p. 7^q* inferui. Illa continet omnes numeros ab 1 usque 10000 , non habentes Divisores præter 2, 3, 5, 7. Ampliorem hujus Tabulæ usum ostendam infra. *

* Hos numeros amplificatos ordinum 2^m. 3ⁿ. 5^p. 7^q. 11^r. 13^s. 17^t quondam computaveram omnes usque ad 10 milliones , adjunctis cujusque divisoribus ope litterarum ; sed incuria amici , cui illos commodaveram , perierunt. Restituentur faventibus circumstantiis.

III.

Quædam Animadversiones super Divisores Numerorum.

§. 27. **Q**uilibet numerus divisibilis semper considerari potest ut multipium Primorum, ita, ut his inventis, reliqui etiam Divisores inventi sint. Numeri primi, quorum Productum est datus numerus, apte vocantur Factores simplices; et hoc nomine distinguuntur a reliquis. Numerus Divisorum simul crescit cum numero Divisorum simplicium. Hic notandum est, si numerus pluries sit divisibilis per eundem primum, illum primum toties reponendum esse inter simplices, si dare velimus certam regulam de numero Factorum. Sic v. g. est $945 = 3 \cdot 3 \cdot 3 \cdot 5 \cdot 7$; et ideo hic numerus habet 5 Factores simplices. His præmissis sequentes leges bonum usum habebunt. μ)

§. 28. Si numerus duos tantum habeat Factores simplices, unus eorum necessario minor est Radice quadratica, aut ipsa radix quadrata dati numeri. Si enim ambo Factores majores essent quam hæc radix, productum majus esset numero dato. Sed hoc repugnat denominationi &c. Non invento igitur pro quocunque numero dato Divisore minore, quam est radix quadratica, numerus nullum habet Divisorem; atque inde primus est.

§. 29. Si numerus datus habeat tres Factores simplices, unus horum Factorum necessario minor est Radice cubica dati numeri. Si enim omnes Factores essent majores radice cubica, numerus major esset se ipso, quod repugnat. Non itaque invento pro dato numero Divisore minore radice cubica, numerus aut nullum, aut duos solum habet Factores simplices.

§. 30. In eodem casu, ubi nempe numerus tres habet Factores simplices, ex eodem fundamento unus necessario major est radice cubica dati numeri. E contrario tertius Factor jam major jam minor esse potest radice cubica. Ad hoc postremum determinandum ponatur Factor medius = a ; maior = ma ; minor = $\frac{a}{n}$; tum erit

Productum = $a^3 m : n$; Radix cubica = $a\sqrt[3]{(m : n)}$. Si proinde $m : n > 1$, erit Radix cubica major quam a ; in casu opposito aut æqualis, aut minor.

μ) Hæc leges magni usus sunt in perfequenda habilitate numerorum ad certos intentus. Patet enim, numeros plurium Divisorum ad longe plures fines accommodari posse, quam primos, aut duorum solum factorum ob naturam suam uniformem. Plura de his legibus inferius, nota ξ .

§. 31. Si numerus habeat quatuor Factores simplices, unus horum Factorum necessario est minor, et unus necessario major radice biquadratica dicti numeri. Alteri duo Factores aut majores aut minores esse possunt; nisi duo, tres, aut omnes quatuor sint æquales radici biquadraticæ. Hoc demonstratur ut theoremata superiora. Et sic in genere liquet: Quando numerus habet n Factores simplices, unum illorum esse debere majorem, alterum minorem radice n^{ta} dicti numeri; et reliquos tum majores, tum minores esse posse, nisi duo, aut plures, aut omnes æquantur dictæ radici.

§. 32. Cum occurrant casus, ubi numerus servire non potest, nisi habeat plures Factores simplices; hæc Propositiones hunc habent usum, ut ex invento minimo Factore judicari possit, an operæ pretium sit quærere reliquos. Sic v. g. numerus extensus ad 100,000,000, non potest habere quatuor Factores simplices, nisi minimus sit infra 100.

§. 33. Si numerus a divisibilis sit per m , etiam $a - m$ per m divisibilis est; et vice versa: si m non sit divisor de a , neque erit de $a - m$.

Hoc theorema aut hic omitti, aut generalius proponi potuisset; quia pridem generalius cognitum est. Applicabo illud hic omiſſa tamen demonstratione, quia sequens theorema illi innititur.

§. 34. Datis Factoribus simplicibus, aut etiam omnibus Divisoribus ab 1 usque $a - 1$; simplices Factores, aut etiam singuli Divisores numeri proxime majoris a inveniri possunt retrorsum numerando. v)

Scribantur numeri 1, 2, 3, ... $a - 1$ secundum ordinem, et infra, aut juxta illos illorum Factores simplices, aut omnes eorum divisores. Jam sit m Divisor numeri a , erit quoque m divisor numeri $a - m$; propterea in serie scripta infra, aut penes numerum $a - m$ occurret divisor m . Jam numerus $a - m$ est numerus m^{us} retrorsum de a numeratus. Hinc divisor m numerando retrorsum reperitus est.

v) Non possum hic silentio præterire emolumenta, quæ propria quadam hujus Theorematis contemplatione, sine respectu ad præſentes paginas, consecutus sum.

Non tantum Factores numerorum datæ basi proximorum, sed immensum quodammodo distantes illius usu reperiri possunt; cognita solum distantia numeris expressa. Ampliarique potest, et ad distantias qualescunque applicari ope basium Factorum interjectarum. Sic ope baseos subsidiariæ, quæ omnes omnium numerorum Factores ab 1 usque 26000 ordine continuo continet, et ope 16 basium particularium seu intercalarium unius folii disquiruntur Factores numerorum intra limites 1 et 24 Milliones. Quodvis folium seu plagula servit 1536.000 numeris. Sed uberius de his loco suo. Vide etiam *Pref. Interp.*

Si vero m non sit divisor de a , tum m itidem non occurrit infra aut penes $a - m$; quia tandem m non est divisor de $a - m$. Jam quia hic supponitur, divisores de a adhuc ignorari; ponatur loco m secundum ordinem 1, 2, 3, 4, 5, 6, &c. et apparet illico, an, aut qui horum numerorum reperiantur illis locis, ad quos devenitur retrorsum numerando. Jam sequuntur Exempla.

§. 35. Primum quando solum de Factoribus simplicibus quaestio est. In hoc casu solum ad tot loca retrorsum numeratur, quot unitates continet radix quadrata dati numeri. Hoc quoque non est semper necesse. Habeantur v. g. Factores numerorum usque 104, et desiderentur illi de 105; tum totus calculus sic peragitur.

105, 104, 103, 102, 101, 100, 99, 98, 97, 96 &c.																										
2		2		2	3	2		2																		
13		3		5	11	7		3																		
		17																								
<table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> </tr> <tr> <td></td><td></td><td>*</td><td></td><td>*</td><td></td><td>*</td><td></td><td></td> </tr> </table>									1	2	3	4	5	6	7	8	9			*		*		*		
1	2	3	4	5	6	7	8	9																		
		*		*		*																				

§. 36. In serie prima sunt numeri, in secunda eorum Factores; tertia indicat numerationem retrorsum, simulque distinguit locis 3, 5, et 7^{mo} Divisores 3, 5 et 7; qui proinde etiam sunt Factores simplices de 105. Cum 105 sit impar, stationes numerorum imparium 103; 101 etc. prorsus omitti potuissent; et tum secundum numeros impares 1, 3, 5, 7, retrorsum numeratum fuisset; Calculus fuisset sequens:

105, 104, 102, 100, 98, 96 &c.														
2	2	2	2	2										
13	3	5	7	9										
	17													
<table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td>1</td><td>3</td><td>5</td><td>7</td><td>9</td> </tr> <tr> <td></td><td>*</td><td>*</td><td>*</td><td></td> </tr> </table>					1	3	5	7	9		*	*	*	
1	3	5	7	9										
	*	*	*											

§. 37. Apparet autem facile, quia 2 non est Divisor de 105; utpote numeri imparis, loco 104, 102, 100 &c. potuisse subrogari dimidium; tumque foret calculus

105, 52, 51, 50, 49, 48 &c.														
2	3	2	7	2										
13	17	5	3											
<table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td>1</td><td>3</td><td>5</td><td>7</td><td>9 &c.</td> </tr> <tr> <td></td><td>*</td><td>*</td><td>*</td><td></td> </tr> </table>					1	3	5	7	9 &c.		*	*	*	
1	3	5	7	9 &c.										
	*	*	*											

Hæc abbreviatio dat Problemati novam formam, cujus tenor jam sequens est: *Datis Factoribus numerorum ab 1 usque a, inveniri debent factores numeri $2a + 1$.*

§. 38.

§. 38. Inventis hac ratione Factoribus minoribus dato numero; nonnumquam habentur omnes. Et hoc invenitur multiplicando Factores inter se. §) Invento vero solum uno Factore, tum alter major est radice quadratica, inveniturque aut divisione aut continuata numeratione. Tandem ubi plures sunt factores, non numquam unus alterque iterato occurrunt. Hoc vero declaratur minimo negotio

§. 39. Casus secundus generalis est, ubi de omnibus Divisoribus sermo est. Tum in serie secunda illi divisores bini et bini ordinantur, quorum productum æquatur numero, cujus Divisorès sunt. Inventis enim hac ratione minoribus, majores inveniuntur sine mora. Ponatur numerus $a - m$ æqualis producto de m, b ; tum erit a productum de $m, b + 1$. Et sic ad Divisorem m correspondens dividitor $b + 1$ simul inventus est. Dati sint v. g. Divisores numerorum usque 20, et quærantur Divisores de 21; tum calculus sequens locum habebit

$$\begin{array}{r}
 21, 20, 19, 18, 17, 16 \ \&c. \\
 \hline
 \begin{array}{ccc}
 2.10 & 2.9 & 2.8 \\
 4. 5 & 3.6 & 4.4 \\
 \hline
 1 & 2 & 3 & 4 & 5 \\
 & & * & &
 \end{array} \\
 \hline
 \end{array}$$

Hic jam invenitur Divisor 3, et juxta illum 6, qui unitate auctus producit divisorem correspondentem 7.

§. 40. Cum hic quoque 21 fit impar, numeri impares 19, 17 &c. itidem omitti possent, breviusque obtineretur:

$$\begin{array}{r}
 21, 20, 18, 16 \ \&c. \\
 \hline
 \begin{array}{ccc}
 2.10 & 2.9 & 2.8 \\
 4. 5 & 3.6 & 4.4 \\
 \hline
 1 & 3 & 5 \\
 & * &
 \end{array} \\
 \hline
 \end{array}$$

Positis quoque hic dimidiis loco 20, 18, 16 &c. æque bene succederet. Notandum tamen est, divisus tum divisoribus paribus secundæ seriei per 2, hujus rationem habendam esse pro divisore correspondente superius proposito.

§) Operæ pretium erit, legem §§. 29. 31. prolatam hic ita amplificare: Omnis numerus trium Factorum, unum habet necessario minorem radice cubica, duos radice quadrata.

Omnis numerus quatuor Factorum, unum habet necessario minorem radice biquadratica, duos minores radice cubica, tres radice quadratica. Demonstratio loco citato adducta æque facile extenditur ad amplificationem Theorematis.

$$\begin{array}{r} 21, 10, 9, 8 \&c. \\ \hline 2.5, 3.3, 2.4 \\ \hline 1. 3. 5 \&c. \\ \hline * \end{array}$$

Nempe hic quoque Divisor 3 apparet. Verum illius confactor jam non est 6, sed 3. Hinc duplo hujus 3 adjici debet 1, ut obtineatur Divisor correspondens 7.

§. 41. Hac ratione Tabula Anjemæ continuari potest.) Illa continet ab 1 usque 10000 non solum omnes numeros, eorumque Factores simplices, sed etiam omnes eorum Divisores; hoc solum discrimine, quod Factores non secundum Paria (§. 39.), sed secundum ordinem incrementi expositi sint. Sic etiam, qui Tabula Anjemæ instructus est, invenire potest immediate Divisores cujusque numeri intra 10000 et 20000 interjectos.

Si enim par est, dimidium ejus jam per se invenitur in dicta Tabula. Si e contrario sit impar, v. g. $2a + 1$; numeratur in Tabula ab a per numeros impares retrorsum, ut apparet ex ultimo exemplo, ubi Divisores de 21 ope divisorum de 10, 9, 8 &c. deteximus.

§. 42. Hoc compendium, paucis mutatis etiam extendi potest ad numeros interceptos intra 20000 et 30000 per 3 non divisibiles. Problema hoc generaliter ita sonat: *Expositis Divisoribus numerorum usque a invenire Divisores numeri $3a + 1$, aut $3a + 2$.* Sufficiet, methodum quibusdam Exemplis declarare. Datus numerus sit 77. Jam cum $(77 - 2) : 3 = 25$, necesse est habere Divisores usque 25, et Calculus erit sequens:

$$\begin{array}{r} 77, 76, 75 \\ \hline 25, 24, 23, 22, 21, 20 \&c. \\ \hline 5.5, 2.12, 23, 2.11, 3.7, 2.10 \\ \quad 3.8 \qquad \qquad \qquad 4.5 \\ \quad 4.6 \\ \hline 1 \quad 2 \quad 5 \quad 8 \quad 11 \quad 14 \quad 17 \\ \quad \quad \quad \quad \quad * \quad * \end{array}$$

Abbreviatio hic incipit cum 75, ut primo numero divisibili per 3. Inde progreditur Numeratio in serie inferiore secundum numeros crescentes tribus unitatibus. Hoc vero efficit, ut nume-

,) Opinione citius confici aut continuari potest Tabula Factorum omnium ex data basi; præsertim, ubi numeri per 2, 3, 5 non divisibiles jam definiti sunt expositis suis Factoribus. Sic expositi sunt a me divisores omnium numerorum usque 30000 absque ullius alius Tabulæ ope. Continuarique potest usque ad 408000, suppetentibus nobis Tabulis ad hunc terminum cum expositis Factoribus hujus conditionis. Taceo de magnis Tabulis usque 2856000, Viennæ et Pragæ depositis.

rando non semper deveniatur ad ipsum Divisorem, sicut hic 11, sed nonnumquam etiam ad duplum Divisoris, ut hic 14. Liquet enim, proprium divisorem septem in serie inferiore saltu præteritum esse.

§. 43. Pro numero 55, qui servit pro secundo exemplo, calculus est præsens:

55, 54										
18	17	16	15	14	13	12	11	10	9	&c.
2.9	17	2.8	3.5	2.7	13	2.6	11	2.5	3.3	
3.6		4.4				3.4				
1	4	7	10	13	16	19	22	25	28	&c
			*				*			

Hic incipit Abbreviatio itatim apud 54; et in serie inferiore invenitur utrinque duplum divisorum 5 et 11.

§. 44. Facile constat, hunc processum continuari posse; quamvis tum etiam in serie inferiore divisorum loco majora multipla occurrant, quorum ratio haberi debet. E. g. Dato numero 539, et suppetentibus solum Divisoribus numerorum usque 53, id est partem decuplo minorem; calculus fit, ut sequitur:

539... 530										
53	52	51	50	49	48	47	46	45	44	&c.
53	2.26	3.17	2.25	7.7	2.24	47	2.23	3.15	2.22	
	4.13		5.10		3.16			5.9	4.11	
					4.12					
					6.8					
9	19	29	39	49	59	69	79	89	99	etc.
				*					*	

Hic series inferior incipit cum 9, quia $539 - 530 = 9$. Progreditur deinde continuo per numerus 10 unitatibus auctos. Apud 49 liquet, numerum 539 bis dividi posse per 7; et apud 99 invenitur tertius Factor 11; unde liquet, numerum 539 esse $= 7 \cdot 7 \cdot 11$.

§. 45. Dyadica Leibnitiana, cujus Methodum haud pridem Branderus, sub titulo: *Arithmetica binaria seu Dyadica* apte exposuit, non raro ita exprimit numeros, ut eorum Divisibilitas manifesta sit. *) Semper optavi, ne Leibnitius in sua Dyadica

*) Non acquievi huic assertioni examinaturus leges et proprietates systematum specialium paulo maturius. Neque frustra, inventum enim est, symmetriam, quam Cl. Lambert hic de systemate dyadico celebrat, in systematis altioribus eximè nancisci ubertatem, ut ipsa repræsentationum multitudo oculorum intuentium aciem quodammodo obtundat. Cum in reea forma dyadica signorum multitudine hæc emolumenta ad numeros infimos deprimat.

ele-

elegisset notas communes 1; 0, sed ut alias adhibuisset; quia sæpius, ubi numeri dyadici et communes simul adhibentur, indicandum est, esse dyadicos. Ulu receptum est in Algebra, loca vacua per * denotare; et hinc hoc signum non mutata significatione servire potest loco zeri 0 Leibnitiani. Pro 1 adhibebo U. Sic v. g. invenitur

$$\begin{array}{l}
 15 = UUUU \text{ divisibile per } UU \quad (\text{et } U^*U) \\
 27 = UU^*UU \quad \text{---} \quad UU \quad (\text{et } U^{**}U) \\
 45 = U^*UU^*U \quad \text{---} \quad U^*U \quad (\text{et } U^{**}U) \\
 51 = UU^{**}UU \quad \text{---} \quad UU \quad (\text{et } U^{***}U) \\
 63 = UUUUUU \quad \text{---} \quad UU \quad \text{et } UUU \quad (\text{et } U^*U^*U) \\
 85 = U^*U^*U^*U \quad \text{---} \quad U^*U \quad \text{et } U^{**}U \quad (\text{non, sed } U^{***}U) \\
 95 = U^*UUUUU \quad \text{---} \quad U^*U \quad (\text{et } U^{**}UU). \quad F. \\
 119 = UUU^*UUU \quad \text{---} \quad UUU \quad \text{et } U^{***}U.
 \end{array}$$

In omnibus his casibus sola symmetria in ordine signorum *U conspicua divisorum criterium offert. Et hæc symmetria hic sæpius, quam in numeris vulgaribus occurrit, quia hic duo tantum signa alternant. Sæpius etiam tum, ubi symmetria absconditur, restaurari potest facili numerorum evolutione. Sic v. g. numerus (25 = UU^*U non est symmetricus. Est autem posito loco U in tertia statione, duplici UU in secunda UU^*U = U^*U^* + UU.

Hoc expertus sum elaborando Opusculum quoddam dictum: *Arithmetica Universalis in numeris*. Quo facio magnam mihi facilitatem conciliaveram, leges expressionibus symmetricis fundatas experiendi. Quod tamen ordinatis in debitas classes operationibus quodammodo neglexi; inventis legibus magis universalibus innixis formulis $m^n - 1$, $m^n + 1$ &c. Videatur Nota λ ad §. 16. ubi m quamlibet systematis basim seu Denominatorum indicat. Hanc indagacionem locupletavi ope Tabulæ representantis Abacum quemdam Pythagoricum pro omnibus numerorum Multiplis infra 31; cujus ope omnes numeros quocumque systemate intra dictos terminos expressos, ex systemate decimali et retro immediate; duce vero systemate decimali mediate ex quovis systemate horum ordinum in quodlibet alterum opinione citius tradebam. Adjicio hic Tabulam Multiplorum omnium infra 20^2 expressorum per systema hujus denominatoris, subscriptis tamen numeris decimalibus. Ne tamen signorum novitas fatiget attentionem, substitui pro valoribus supra 9 litteras minutas Alphabeti consueti, positis $a = 10$, $b = 11$ etc.

Superfedeo explicatione ampliori, Lectori sagaci superflua. Nec difficile erit, talem apparatus incendio mihi abreptum, si congruum fuerit, restaurare.

Ruptis hac ratione portis proptia quadam et violenta methodo, et inficius eorum, quæ hac de re scripta et in Memorialibus Acad. Reg.

1	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f	g	h	i	k	l	10
	2	4	6	8	a	c	e	g	i	10	11	12	13	14	15	16	17	18	1c	1i	20
		3	9	c	f	i	11	14	17	1a	1d	1g	1k	22	25	28	2b	2e	2h	30	
			4	g	10	14	18	1c	1g	20	24	28	2c	2g	30	34	38	3c	3g	40	
				5	15	1a	1f	20	25	2a	2f	30	35	3a	3f	40	45	4a	4f	50	
					25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
					6	16	22	28	2e	30	36	3c	3i	44	4a	4g	52	58	5e	60	
						20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
							21	2g	33	3a	3h	44	4b	4i	55	5c	5k	66	6d	70	
							49	55	63	70	77	84	91	98	105	112	119	126	133	140	
								34	3c	40	48	45	54	5c	60	68	6g	74	7c	80	
								64	72	80	88	96	104	112	120	128	136	144	152	160	
									41	4a	4k	58	5a	66	6f	74	7d	82	8b	90	
									81	90	99	108	117	126	135	144	153	162	171	180	
										50	5a	60	6a	70	7a	80	8a	90	9a	100	
										100	110	120	130	140	150	160	170	180	190	200	
											61	6c	73	7e	85	8g	97	9i	a9	b0	
											121	132	143	154	165	176	187	198	209	210	
												74	7g	88	90	9c	aa	ag	bb	cc	
												144	156	168	180	192	204	216	228	240	
													89	92	9f	ab	bi	be	cc	dd	
													169	182	195	208	221	234	247	260	
														95	aa	ba	bi	cc	dd	ee	
														196	210	224	238	252	266	280	
															11	ba	ca	da	ea	fa	
															225	240	255	270	285	300	
																10	ca	da	ea	fa	
																256	272	288	304	320	
																	17	ea	fa	ga	
																	289	306	323	340	
																		18	ga	ha	
																		324	342	360	380
																			19	ha	ia
																			361	381	400
																				20	100
																					400

NOTA.

Litterarum, dum ultra decem numeratur, cum signis decimalibus coordinatio ideo præferenda est alijs signis arbitrarijs, quia ordo usu receptus memoriam quam maxime adjuvat.

§. 46. Jam quæritur de *Methodo facillima*, quemvis numerum dyadice exprimendi. Declarabo hoc exemplo numeri 35351. Tota computatio sic peragitur:

	35351, U
	17675, U
	8837, U
	4418, *
	2209, U
	1104, *
	552, *
	276, *
	138, *
	69, U
	34, *
	17, U
	8, *
	4, *
	2, *
	1, U

Hinc numer. 35351 dyadice	= U * * * U * U * * * U * U * U	= 2 ⁰ =	1
* Quod ita declaro	= U = 2 ¹ = 32768	= 2 ¹ =	2
	= U = 2 ² = 2048	= 2 ² =	4
	= U = 2 ³ = 512	= 2 ³ =	8
	= U = 2 ⁴ = 16	= 2 ⁴ =	16
	= U = 2 ⁵ = 35351	= 2 ⁵ =	32

Mediatur nempe sine interruptione omissis Fractionibus, donec deveniatur ad 1. Post quemvis numerum imparem scribitur U, et post pares *; tum numerus ordine inverfo positus dyadice expressus est, translata serie in lineam horizontalem. Hæc expressio jam vix aliquam symmetriam refert. Interea loco primarum 7 stationum:

U***U*U repartita prima in sequentem scribi potest: $\left\{ \begin{array}{l} UUUUUU, \\ UU \end{array} \right.$
 et hic resolvitur in: $\left\{ \begin{array}{l} U*UUU \\ U*UUU \end{array} \right\}$. Jam cum quinque ultimæ

Berolinensis 1771. collecta reperiuntur, evolvi quam plurimas leges serierum decimalium numeris primis proprias.

Sed pertæsus restrictiones Systematis cujusdam specialis, primum inveni Methodum quamvis seriem Quotorum decadice expressam, traducere in Systema quodcunque diversum, et retro. Sed abhorrens recursum si-

gnorum eorumdem (quippe in serie numeri primi 97, seu $\frac{1}{97} = 0,0103092783, 5051546391, 7525773195, 8762886597, 93814432 \dots$ cum complemento cujusque notæ ad 9. quælibet nota quasi decies recurrit) modo minime symmetrico, refugi ad subsidia generalissima nunquam deficiencia, quæ non sunt hujus loci.

Ex innumeris legibus et proprietatibus primaria quædam hæc fuit: expressiones symmetricas, quas Lambert de numeris dyadicis celebrat non solum esse characterem omnibus numerorum systematibus pro determinatis numeris primis proprium, sed etiam crescere multitudinem expressionum symmetricarum pro ratione systematum altiorum denominatorum, ita ut operæ pretium non sit, defatigare memoriam processibus singularibus, ubi leges non suppetunt definitæ, ut hic §. 46.

stationes eundem ordinem habeant, sequitur, numerum per U^*UUU esse divisibilem.

§. 47. Alterum Problema est: *Quemvis numerum dyadice expressum reducere ad expressionem vulgarem (decadicam)*. E. g. Numerum superius inventum U^*UUU . Hoc jam non fit mediando, sed duplicando; et calculus disponi potest ratione sequente:

$$\begin{array}{r} U \quad 1 \\ * \quad 2 \\ U \quad 5 \\ U \quad 11 \\ U \quad 23 \end{array}$$

Scribuntur nempe signa U^*UUU deorsum versus, et incipit duplicatio, apud 1, ita, ut cuiusvis duplo adjiciatur 1, quoties ponitur penes U . Cæterum computatio etiam sic fieri potuisset:

$$\begin{array}{r} U \quad * \quad U \quad U \quad U \\ 1 \quad : \quad : \quad : \quad : \\ \quad \quad 2 \quad : \quad : \quad : \\ \quad \quad \quad 5 \quad : \quad : \\ \quad \quad \quad \quad 11 \quad : \\ \quad \quad \quad \quad \quad 23 \end{array}$$

Hic modus operandi extenditur ulterius. Verum abrumpo hoc loco; quia solum adduxi respectu divisorum numerorum; in quantum hi illius ope facilius inveniuntur. Cæterum adjicere debet, me, computando aliquid methodo dyadica, loco signorum (U^*) libentius adhibere simplicissima (1, .) ρ

§. 48. Ratione formularum sequentium itidem brevis ero. Sunt; ut liquet producta omnium numerorum primorum a 7 usque 173. In genere serviunt ad hoc, ut numerus datus habens divisorem in-

ρ) Non recedens a fine principali Factorum sed a methodis eos indagandi restrictis per systemata particularia, coactus fui refugere ad subsidia generalissima, ubi signorum forma in minimam considerationem venit, nisi in quantum adjuvat memoriam ordine quodam successivo ut jam recepto; cujusmodi sunt signa 1, 2, 3 etc. et litteræ a, b, c , ut apparet ex Tabula multiplosum notæ præcedenti π inserta.

Finis hic generalis certas Bases induxit, quarum una erat Tabula Potentialium de n (Denominatorum systematum infra 31), cum multiplis earum usque $n - 1$. Subrogatis etiam, si præplacet, in locum litterarum signis duplicibus arcu unitis, v. g. $\widehat{10} \widehat{11} \widehat{12}$, loco $a b c$. Instar omnium exemplo nobis sit Tabula potentialium multiplicatarum de 6.

tra

tra 7 usque 173 habeat communem Divisorem cum uno aut altero horum productorum.

$$7 \cdot 11 \cdot 13 \cdot 17 \cdot 19 \cdot 23 \cdot 29 = 215 \ 656 \ 441$$

Expon.	mult.	2	3	4	5	
6 ⁰	=	1	2	3	4 ^h	5
6 ¹	=	6	12	18	24 ^g	30
6 ²	=	36	72	108 ^f	144	180
6 ³	=	216	432	648 ^e	864	1080
6 ⁴	=	1296	2592	3888 ^d	5184	6480
6 ⁵	=	7776	15552 ^c	23328	31104	38880
6 ⁶	=	46656	93312	139968 ^b	186624	233280
6 ⁷	=	279936	559872	839808	1119744	1399680

Ope hujus Tabulæ numeri decimales quam celerrime in senaries traduci possunt et retro. Exemplo nobis sit 100000 in quovis respectu:

$$\begin{array}{r}
 1000000 \\
 3. \ 6^7 = 839808^a \\
 \hline
 160192 \\
 3. \ 6^6 = 139968^b \\
 \hline
 20224 \\
 2. \ 6^5 = 15552^c \\
 \hline
 4672 \\
 3. \ 6^4 = 3888^d \\
 \hline
 784 \\
 3. \ 6^3 = 648^e \\
 \hline
 136 \\
 3. \ 6^2 = 108^f \\
 \hline
 28 \\
 4. \ 6^1 = 24^g \\
 \hline
 4 \\
 4. \ 6^0 = 4
 \end{array}$$

Nunc expressio senaria erit

		33233344	
idest, reducendo in numeros de- cimales.	}	3. 6 ⁷ = a =	839808
		+ 3. 6 ⁶ = b =	139968
		+ 2. 6 ⁵ = c =	15552
		+ 3. 6 ⁴ = d =	3888
		+ 3. 6 ³ = e =	648
		+ 3. 6 ² = f =	108
		+ 4. 6 ¹ = 24 + 4 =	28
			1000000

7 . 11 . 13 . 17 . 19 . 23 . 29 =	215	656	441
31 . 37 . 41 . 43 . 47 =	95	041	567
53 . 59 . 61 . 67 . 71 =	907	383	479
73 . 79 . 83 . 89 . 97 =	4132	280	413
101 . 103 . 107 . 109 . 113 =	13710	311	357
127 . 131 . 137 . 139 . 149 =	47205	540	259
151 . 157 . 163 . 167 . 173 =	111641	786	731
etc.			etc.

Tab. III. Hi numeri itidem sequuntur proxime post Tabulam multiplicationis (§. 8) relatam. σ

Tab. IV. Cumque non raro indagantur Divisores numerorum ope numerorum quadratorum; eadem pagina connotationem ultimarum notarum numeri quadrati imparis adjeci; sicut et Formulas reli-

Tab. V. quas, quæ determinant quatuor casus, qua ratione numerus per

Acquiesco huic generi subsidiorum ambobus finibus inservienti; omissis reliquis passim obviis.

Admonendum tamen judico, diversa cum non nullis numerorum systematibus, ex quorum cognitione divisorum diversorum natura potissimum decernitur, nasci commoda, ubi suspicamur latere incommoda. Sic v. g. Potentiæ Basium altiorum multiplicandi facilitatem quidem eludunt, expressionem tamen, reductis ad numerum semper minorem signis, etc. simplicificant.

Hoc incrementum quam proxime determinari potest, comparando Potentias inter se. Sic computatio *dyadica* numerum signorum fere $3 \frac{1}{2}$ vicibus auget, respectu decadicæ. Systema *senarium*, quod præter 2, 3, 5 divisorem 7 (loco 11) aperit, vix amplius quam $\frac{2}{3}$ absorbit. *Centenarium* $\frac{1}{2}$ de signis decimalibus applicat.

Atque inde de variis systematum diversorum emolumentis, et præ primis de felici systematis nostri decimalis mediocritate judicium ferri potest.

σ Clavis Factorum ab 1 usque fere 25,000.000 subsidia continet, omnes numerorum Divisores infra 400 inventiendi, percursis ad summum quatuor columnis ita ordinatis, ut in prima columna omnes Divisores occurrant infra 100, cum maxima parte reliquorum, in secunda omnes infra 200, etc. ita tamen, ut rarissime refugiendum sit ultra primam, rarius adhuc ultra secundam ea lege ut percursis 7, 11, 13, 17 . . . unitatibus certum sit, numerum datum nullo horum divisorum esse præditum, nisi cum æquali divisore distantia concurrat. Totum negotium si ad omnes 4 columnas continuandum sit, quod fit cum numeris primis, et quibusdam, quorum minimus Factor excedit 400, paucis minutis absolvitur.

2 et 3 non divisibilis fit differentia duorum Quadratorum. Hæ formulæ indicant, in quovis casu multos numeros quadratos jam per se excludi; atque inde computatio multum abbreviatur.

§. 49. Sic si detur numerus 35351, invenitur

$$35351 = 2946. 12 - 1$$

Proinde per primam formulam

$$35351 = 36 a^2 - 4 b^2 - 4 b - 1$$

$$8838 = 9 a^2 - (b^2 + b)$$

Jam cum $b^2 + b$ semper par sit, a par sit oportet. Ponatur proinde $a = 2c$; invenitur

$$8838 = 36 c^2 - (b^2 + b)$$

$$c^2 = 245 + \frac{18 + bb + b}{36}$$

Unde consequitur esse

$$\frac{bb + b}{18}$$

numerum imparem. Hoc vero non succedit, nisi b æquetur uni horum 4 valorum

$$b = 36n + 9$$

$$b = 36n + 17$$

$$b = 36n + 18$$

$$b = 36n + 26$$

Inde obtinentur quatuor formulæ

$$c^2 = 248 + 36n^2 + 19n$$

$$c^2 = 254 + 36n^2 + 35n$$

$$c^2 = 255 + 36n^2 + 37n$$

$$c^2 = 265 + 36n^2 + 53n$$

Hæ formulæ jam sunt multo simpliciores, quam si simus contenti cum

$$35351 = A^2 - B^2$$

conservatis inde omnibus quadratis.

Invenitur etiam, positis, v. g. in prima formulâ loco n successive 0, 1, 2, 3, 4 etc. et sumpto $n = 4$, valor

$$c^2 = 900$$

$$c = 30$$

et inde

$$a = 60, b = 153$$

$$6a = 360, 2b + 1 = 307$$

$$35351 = 360^2 - 307^2 = (360 + 307) \cdot (360 - 307) = 667 \cdot 53$$

Eadem formula pro $n = 8$ producit valorem

$$c^2 = 2704$$

$$c = 52$$

$$a = 104, b = 297$$

$$6a = 624, 2b + 1 = 595$$

$$35351 = 624^2 - 595^2 = 1219 \cdot 29$$

Unde nullo negotio consequitur, esse

$$35351 = 53 \cdot 29 \cdot 23$$

seu tertium Factorem esse debere = 23.

§. 50. Cæterum quod norandum est de omnibus methodis Factorum inquirendi, eo se reducit, cum numeris primis processum esse longissimum, tandem nihil inveniendo, quia non scitur prævie, an numerus datus divisores habeat, nec ne. Methodus brevissima hoc decidendi, quam invenire potui, et quæ aliquantum completior esse deberet, fundatur in asserto, quod *Fermates* sine demonstratione allegat, quod autem postea *Eulerus* demonstravit, et quod in Tractatu de numerorum Divisoribus, quæ in Actis Eruditorum inferni, itidem occurrit. Propositio ipsa sequens est.

§. 51. Si a sit numerus primus, b quivis alius per a non divisibilis, semper est $\frac{b^a - 1}{a} = \text{num. integer}$. Neque tamen retro inferri potest, si hæc formula sit numerus integer, a esse numerum primum, etsi contrarium quam rarissime eveniat. τ

§. 52. Econtrario inferri potest: Quando hæc formula non est numerus integer, a non esse posse numerum primum. Et hoc fere

τ Hanc legem, his paginis inconsultis, in Periodis decimalibus assecutus eram; serius eam inveni diligentius inquisitam a Cl. *Obersit* in comm. lit. Lambertino; sed universalitatis amore ad diversa systemata transiit, sumpto b pro denominatore systematis, brevique omnium systematum emolumenta consecutus. De quibus suo loco.

Compositorum numerorum leges indagavi. Quilibet num. prim. p ad summum habet periodum $p - 1$ terminorum, q vero terminorum $q - 1$. Atque inde pq ad summum $(p - 1)(q - 1) = pq - p - q + 1$ terminos. Ex quo patet, periodum de pq nunquam terminari $pq - 1$ terminis. Huic legi innotuitur propositio inverfa. Sed hic non est locus.

fem.

semper accidit , quando a est numerus divisibilis , et pro b reservatur idem valor. Atque etiam , si hoc non succederet , pro b tantum ponendus est alius numerus ; et necessario erunt tales numeri , qui formulam

$$\frac{b^a - 1}{a}$$

non sinunt esse numerum primum. In hac operatione semper incipi potest ponendo $b = 2$; quia tum dignitates altiores sola duplicatione obtinentur. Cum vero præprimis quærat compendium calculi ; facile apparet , hic quæri , quomodo $b = 2$. quam celerime ad potentiam $a - 1$ eleveretur. Ad hoc comparatio Progressionis Arithmeticæ ac Geometricæ pridem cognita sequentem methodum offert ; quod statim declarabo exemplo. Detur numerus 111 , et inveniendum est , an sit numerus primus. Hic igitur est :

$$\begin{aligned} a &= 111 \\ a - 1 &= 110 \end{aligned}$$

Et posito - - - - - $b = 2$
videndum est , an

$$\frac{2^{110} - 1}{111} = \text{num. int.}$$

Computatio jam ita peragetur :

Dignit.	Residua
110	4 — 1 = 3
55	35 — 1 = 34
54	73 — 1 = 72
27	80 — 1 = 79
26	40 — 1 = 39
13	200 — 1 = 199
12	100 — 1 = 99
6	64 — 1 = 63
3	8 — 1 = 7
2	4 — 1 = 3
1	2 — 1 = 1

Mediatur scilicet 110 , cumque dimidium 55 sit impar , diminuat unitate , ut porro mediari possit. Hoc continuatur , donec deveniatur ad 1. Hac ratione obtinentur numeri columnæ , quæ indicat dignitates , ad quas $b = 2$ tum gradatim , tum per saltum elevari debet , donec deveniatur ad 2^{110} .

» Talium indagacionum uberrima mihi copia fuit. Sed non licuit eligere denominatores tam commodos , ubi necesse fuit v. g. de 1009 in
c Hac

Hac lege obtinetur

$$\begin{aligned} 2^1 &= 2 \\ 2^2 &= 4 \\ 2^3 &= 8 \\ 2^6 &= 64 \end{aligned}$$

Hic scilicet 8 tamquam tertia potentia quadratur ad obtinendam immediatè sextam potentiam. Pari ratione habetur potentia 12^{ma} , quadrando 64. Cum autem $64^2 = 4096$, ac proinde $> a = 111$ fit, dividatur 4096 per 111, reservato solum residuo 100. Hoc duplicatur pro dignitate 13^a ; quia 2^{11} divisum per 111 residuum duplo majus habet, ac proinde 200. Pro dignitate 26^a quadratur 200; cumque quadratum 40000 > 111 , dividatur itidem 40000 per 111, reservato solum residuo, quod est 40; duplicaturque pro dignitate 27^{ma} , dando 80. Pro dignitate 54 quadratur 80; quadrato 6400 iterum diviso per 111, reservatoque residuo 73. Duplicetur hic pro dignitate 55^a ; proinde $= 146$, aut quia 111 inde subtrahi potest, tantum 35. Tandem pro dignitate 110^{ma} quadratur de $35^2 = 1225$ divisum per 111, exhibet residuum 4. Et hoc est residuum prodiens, quando 2^{110} dividitur per 111.

Cum proinde $2^{110} - 1$ divisum per 111, det residuum 3, consequitur, 111 non esse numerum primum. ϕ

tegram Periodum sistere. Deficientibus enim tum systematis inferioribus, utendum fuit majoribus, quæ in ordine profectus duo addivi subsidia, aut persequendo exponentes secundum terminos divisorum de $p - 1$, aut nactus terminum inferioris formæ (3, 5, 6, 7) respondentem exponenti altiori, multiplicando terminos exponentibus congruis respondentes cum talibus terminis, adeptando residua seu novos terminos æquis locis.

ϕ Amplior est processus, ubi cum numeris majoribus facienda est experientia, et necesse est ad Bases altiores refugere ad seriem integram obtinendam. Quod ut cum debita præcautione peragatur, sciendum est, omnes numeros primos nancisci periodos tot terminorum diversorum, quot sunt divisores de $p - 1$; v. g. cum $1009 - 1 = 1$. $1008 = 2$. $504 = 3$. $336 = 4$. $252 = 6$. $168 = 7$. $144 = 8$. $126 = 9$. $112 = 12$. $84 = 16$. $63 = 18$. $56 = 21$. $48 = 24$. $42 = 28$. 36 habeat 28 diversos Factores; apparet positis/pro b successive valoribus 1, 2, 3, 4 ---- 1008, nasci debere 28 diversas periodos, termino 1008 finitas, quas inter systema de $11 = b$ satisfacit prima vice. Hæc quidem lex est universalis primorum, non item compositorum. Quamvis enim diversi numeri compositi habeant terminos periodicos cum suis simplicibus communes, demonstravi tamen alio loco, numeri cujusque compositi unitate minuti complures divisores numquam producere posse omnes periodos divisoribus suis competentes; cujus naturæ semper sunt factores maximi de $p q - 1$; quia quilibet numerus compositor unitate minutus necessario nanciscitur factores altiores quam $p - 1$, $q - 1$. Quamvis autem hic quodammodo redeat quæstio similis illi, cui satisfactum imus, supponendo Factores

S.

§. 53. Posito $b=3$, obtentum esset

Dign.	Resid.
110	9
55	3
27	36
13	30
6	63
3	27
1	3

Et tum tandem inde conclusum esset, quia

$$\frac{3^{110} - 1}{111}$$

non est numerus integer, sed residuum habet 8, numerum 111 non esse primum.

Cæterum per se clarum est, hic, ubi ponitur $b=3$, ac proinde quærentur dignitates de 3 aut earum residua, multiplicandum esse per 3, ubi ante duplicabatur. Sic v. g. Pro dignitate 6^{ta} residuum est 63. Hoc multiplicato in se, et quadrato 3969 per 3 multiplicato, et producto 11907 per 11 diviso, dat residuum 30 pro dignitate 13^{ta}.

§. 54. Cum hoc in calculo quæratum compendium possibile, facile apparet, superfluum esse, pro b sumere majores numeros, quam primos. Sumatur v. g. $b=2.3=6$. Jam si 2^{a-1} divisum per a det residuum m , et 3^{a-1} divisum per a residuum n ; faciet 6^{a-1} divisum per a residuum mn . Est autem, si a sit numerus primus, semper $m=n=1$; ac proinde etiam $mn=1$. Atque ita tantum per ambages per $b=6$ inveniretur idem, quod per $b=2$ aut $b=3$ simplicius et facilius inventum fuisset. Cum proinde numeri primi 2, 3, 5 hoc intuitu brevissimum faciant calculum; dignitates horum numerorum, quantum per spatium trium

de $p-1$ sciri; tamen hoc concedetur tanto facilius, quia $p-1$ semper par est. Sic v. g. numerus $91=7.13$; unitate minutus $=90=2.45=3.30=5.18=6.15=9.10$, factores 2, 3, 6 quidem habet communes cum $7-1, 13-1$ præter 12, nanciscitur tamen Factores novos 9, 10, 15, 18, 30, 45, nunquam formaturos periodum.

Hinc nova nascitur methodus, simplicior præcedente, inquirens periodos divisorum altiorum radici quadratæ de $p q-1$ aut proximas, aut eam excedentes. Methodum hoc efficiendi ostendam alibi, spe fretus, illam ad desideria hæc inquirentium quam proximè accessuram.

Tab. VII. pignarum licit in Tabulas retuli x . Has tabulas etiam in aliis
VIII. IX. intentibus usum suum habere, notum est omnibus, qui in negotio numerorum versantur.

Sic v. g. dignitates de 2, 3, 5 in fractiones decimales ordinatæ, simul referunt dignitates de 0, $2 = \frac{1}{5}$; 0, $3 = \frac{1}{10}$; 0, $5 = \frac{1}{2}$.
Et sic in his Tabulis simul continentur dignitates numerorum :

4, 8, 16 etc.	0,4 ; 0,8 ; 1,6 etc.
9, 27, 81 etc.	0,9 ; 2,7 ; 8,1 etc.
25, 125, 625 etc.	2,5 etc.

possuntque pro libitu exscribi et ordinari. Hoc in computatione quantitatum per series infinitas multum habere usum, per se clarum est. Sed occasione alius Tabulæ porro hac de re tractabo.

IV.

Tabula ad Logarithmos hyperbolicos.

§. 55. **A**nte tempora *Nepperi* Arithmeticæ studiosi invenerunt amœnam distractionem in comparatione serierum Arithmeticarum, et Geometricarum; et sic illis, qui indignabantur studiis Mathematicis, dederunt occasionem hoc studium numerandi inter inanes speculationes. Nam tum quoque: *Virtus post nummos* progressui scientiarum oberat. Interea *Nepper* hoc nihil curavit. Comparavit ambas progressionès, visurus, nihilne conferre posset ad amplificationem harum proprietatum. Notabilia raro sola. Sic tandem *Nepper* invenit *Logarithmos*, et res desit esse speculatio. Poterant expectari majora; sed hæc prævidere non poterat *Nepper* tempore suo.

§. 56. Ponamus interea, *Nepperum* non invenisse *Logarithmos*; illi necessario apparuissent invento *Calculo integrali*; quia ibi *Logarithmi* non applicantur pro calculi compendio solum, sed ut quantitates reales. Interea *Nomen Logarithmorum* per calculum in-

x Salvis omnibus regula hæc non caret exceptione, mutato saltem casu nota præcedente ϕ adducto. Systema consuetum decimale de 2, 5, positis ex parte multiplis $a, 2a, 3a, \dots, 9a$, omnium compendiorum capax est, et sic diversi numeri non compositi, quando producunt seriem completam sola subtractione examinantur quam celerrime absque duplicatione. Qua deficiente recurrendum est ad alia systemata, de quibus alibi.

regralem vix locum habuisset ; quia est verosimile , futurum fuisse , ut introducerentur denominationes analogæ *Plano hyperbolico* , aut *Arcubus hyperbolicis*. Atque ita sic dicta (linea) *Logistica* , si nomine omnino non caruisset , aliud nomen nacta fuisset. An computatæ fuissent Tabulæ Logarithmicæ , præcipue tantæ , ut hodie habentur , alia est quæstio. Nam labor indefessus ad computandas tantas Tabulas a tempore *Nepperi* , *Briggii* et *Vlacci* multum deficit ; nec facile foret invenire Editores. Bene itaque factum , quod res ita successit , et quod Logarithmi inventi sunt ante calculum integralem.

§. 57. Jam ut ad rem revertar , repeto Annotationem , a tempore calculi integralis Logarithmos ratione magis generali factos necessarios , quam *Nepper* sibi poterat imaginari. Integrale

$$\int \frac{dx}{x}$$

et infinita alia dependentia ab hoc , multoties occurrunt in Integratione ; et sine Logarithmis multitudo Problematum utilissimorum et maximi momenti non fuisset soluta. Jam vero calculus integralis proprie requirit Logarithmos *hyperbolicos* , seu *naturales* , quos *Nepper* initio computaverat ; ut saltem specimen offerret tallium Tabularum.

Cum vero tunc Logarithmi proprie servirent ad computationis compendium ; neglectis Logarithmis *hyperbolicis* alii computati sunt , speciali formæ decimali magis competentes. Jam invento calculo integrali poterant repeti Logarithmi naturales et exponi in Tabulis. Sed Tabula *Nepperiana* deficit ultima nota , et sic denuo computari debuisset. Ex parte etiam hoc consolabatur nonnihil , Logarithmos naturales inveniri posse ex *Briggianis* , multiplicatis cum

2,30258 50929 94045 68401.79914 etc.

Et sic Tabulæ Logarithmorum naturalium majores manserunt sine effectu.

§. 58. Modo magis admirabili processit *Shervinus*. Ille exhibet in Introductione Tabularum suarum Logarithmos *Briggianos* omnium numerorum ab 1 usque 100 , et omnium primorum usque 1100 in 60 notis decimalibus , ostendens , quomodo illorum ope Logarithmi omnium numerorum reliquorum usque ad 60 notas computari possint. Jam cum Logarithmi *Briggiani* proprie serviant ad compendium calculi , hoc intentu *Shervinus* penitus aberravit a scopo suo ; quia in computationibus Logarithmicis pars proportionalis quasi eadem temporis jactura invenitur , quæ requiritur ad computationem sine Logarithmis. Ejus Tabula cum 60 notis igitur ad summum tum tantum bonum habet usum , ubi numerus elevandus est ad altas dignitates , et productum desideratur accu-

rarius. Sed tales casus raro occurrunt; et *Sbervinus* semper elegisset melius Logarithmos hyperbolicos 60 notis expressos, loco *Brigianorum*; quia hi non tantum ad multiplicationis compendium, sed in quantum sunt veræ quantitates, serviunt, et nonnunquam accuratius desiderantur.

Tab. XIII. §. 59. Cum interea ut plurimum simus contenti 7 notis decimalibus, pridem optabilis erat tabula, exhibens Logarithmos hyperbolicos eo usque. Non cognovi tales Tabulas; ac proinde ante aliquot annos computaveram hos Logarithmos ab 1 usque 100, ut inveniuntur Tabula XIII. Jam cum inveniendi essent Logarithmi numerorum altiorum, adhibui diversa subsidia, mutata pro circumstantiis. Nam cum esset datus numerus a compositus, erat summa Logarithmorum factorum de a æqualis Logarithmo de a . Dum hoc non succederet, tentavi cum $a \pm 1$. Cumque hoc succederet, invento Logarithmo de $a + 1$ aut $a - 1$, Logarithmi de $a \pm 1$ Tab. XII. inveniuntur ope formulæ Tabulæ XII. Cumque $a > 100$, inveni

$$\log. a = \log. (a + 1) - \frac{2}{2a + 1}$$

usque ad 7 et amplius notas decimales satis accurate; atque inde tam accurate ut desiderabam. Sic v.g. si Log. hyperb. de 34651 sit inveniendus, est

$$34650 = 10. 5. 9. 7. 11 = 10. 45 77.$$

$$\log. 10 = 2,3025851$$

$$\log. 45 = 3,8066625$$

$$\log. 77 = 4,3438054$$

$$\log. 34650 = \underline{\underline{10,4530530}}$$

Tandem est

$$\log. \frac{34651}{34650} = \log. \left(1 + \frac{1}{34650} \right) = \frac{2}{69301}$$

$$= 0,0000289$$

$$\log. 34650 = \underline{\underline{10,4530530}}$$

$$\log. 34651 = \underline{\underline{10,4530819}}$$

Pari ratione inventum esset

$$34648 = 8. 61. 71.$$

$$\log. \frac{34651}{34648} = \log. \left(1 + \frac{3}{34648} \right) = \frac{6}{69299}$$

=

$$\begin{aligned} &= 0,0000866 \\ \log. 8 &= 2,0794415 \\ \log. 61 &= 4,1108738 \\ \log. 71 &= 4,2626799 \\ \hline \log. 34651 &= 10,4530818 \end{aligned}$$

Si e contrario numerus habeat fractiones decimales, v.g. 3,1415926; ponatur ejus loco v. g. 3141,5926 . . . et hic millies major sumptus est. Jam invenitur

$$\begin{aligned} 3139 &= 43. 73; \\ \log. \frac{3141,5926}{3139,0000} &= \log. \left(1 + \frac{2,5926}{3139,0000} \right) = \frac{5,1852}{6280,5926} \\ &= 0,0008256 \\ \log. 43 &= 3,7612000 \\ \log. 73 &= 4,2904594 \\ \hline &8,0524850 \\ \log. 1000 &= 6,9077553 \\ \hline \log. 3,14159 \text{ etc.} &= 1,1447297 \end{aligned}$$

§. 60 Postea rescivi *Simpsonem* computasse Tabulam Logarithmorum hyperbolicorum. Primo intuitu videbatur extendi a 100 ad 1000; sed attentius spectata tantum progreditur ab 1 usque 10; sed secundum omnes partes 100^{mas}. Et inde pretendit ab 100 usque 1000; posito log. de 100 = 0; aut addendo ad logarithmos a *Simpsonem* computatos

$$\log. 100 = 4,6051702.$$

Verum hoc omisit *Simpson*. Et cum in genere spectatum idem sit, Tab. XV. Tabulam *Simpsonis* hic adjeci. Ea est Tab. XV.

Et cum in usu hujus Tabulæ sæpius addendi aut subtrahendi veniant logarithmi de 10, 100, 1000, etc. assignavi hos logarithmos Tab. XIV. adjectis simul formulis, servientibus ad determinandam pro omni casu partem proportionalem. Usus jam est sequens.

§. 61. Numerus, cujus logarithmus ope hujus Tabulæ inveniendus est, multiplicandus aut dividendus est per 10, 100, 1000, etc. nisi cadat inter 1 et 10; ut cadat inter hos limites. Ita v. g. si detur numerus 19300; dividatur per 10000 = 10⁴, ut obtineatur 1,9300, aut 1,93; jam cum 1,93 inveniatur in Tabula, computatur

log.

$$\begin{aligned} \log. 1,93 &= 0,6575200 \\ \log. 10^4 &= 9,2103404 \\ \log. 19300 &= \underline{9,8678604} \end{aligned}$$

si e contrario quærendus esset logarithmus de 0,193; hic numerus per 10 multiplicandus esset, ut haberetur 1,93; et esset

$$\begin{aligned} \log. 1,93 &= 0,6575200 \\ - \log. 10 &= \underline{2,3025851} \\ - \log. 0,193 &= \underline{1,6450651} \end{aligned}$$

§. 62. Verum non evenit semper, ut numerus hac lege mutatus, aut talis, qui per se cadit inter 1 et 10 existat in Tabula. In his casibus invenienda est pars proportionalis. Ad hoc natura Logarithmorum hyperbolicorum per formulam (Tab. XII) compendium præbet speciale

$$\log. (a + x) = \log. a + \frac{x}{a + \frac{1}{2}x} + \text{etc.}$$

Quod declarabo exemplo numeri 3,1415926. Cum pro hoc numero in Tab. XIII. tantum inveniatur log. 3,14, erit

$$\begin{aligned} a &= 3,14 \\ x &= 0,0015926 \\ \frac{1}{2}x &= 0,0007963 \end{aligned}$$

ac proinde

$$\begin{aligned} \frac{x}{a + \frac{1}{2}x} &= \frac{0,0015926}{3,1407963} = 0,0005071 \\ \log. 3,14 &= \underline{1,1442227} \\ \log. 3,14159 \text{ etc.} &= 1,1447298. \end{aligned}$$

Numeri 1,8768 et 187,68, expositi in Tabula XII pariter exemplo fervire possunt.

§. 63. Problema conversum jam est: *Pro dato Logarithmo hyperbolico invenire numerum.* Ad hoc serviunt formulæ Tab. XIV. expositæ

$$\begin{aligned} A - \log. a = b &= \frac{x}{a + \frac{1}{2}x} \\ x &= \frac{ab}{1 - \frac{1}{2}b} \end{aligned}$$

Nihilominus de dato logarithmo A , log. 10 toties subtrahendus; aut

aut ad eum addendus est, donec residuum aut summa sit minor log. 10. Sic v. g. si datus logarithmus = 5,2347383, erit

$$2 \log. 10 = \frac{5,2347383}{4,6051702}$$

$$A = 0,6295681$$

Jam est

$$\log. 1,87 = \frac{0,6259384}{} = \log. a$$

$$b = 0,0036297$$

$$x = \frac{ab}{1 - \frac{1}{2}b} = \frac{0,0067875}{0,9981852} = 0,0068000$$

$$a = \frac{1,8700000}{1,8768000}$$

proinde est 1,8768 numerus, cujus logarithmus = 0,6295681. Et 187,68 est numerus dati logarithmi.

§. 64. Servire etiam potest ad hoc Formula Tab. X; et tunc est

$$e^x = \frac{2+x}{2-x} = 1 + \frac{x}{1 - \frac{1}{2}x}$$

formula non solum simplicissima, sed etiam satis accurata. V. g. sit

$$A = 0,6295681$$

ac proinde

$$\log. a = l. 1,87 = \frac{0,6259384}{}$$

$$x = 0,0036297$$

estque

$$e^x = 1 + \frac{0,0036297}{0,9981852} = 1,0036363$$

et

$$a \cdot e^x = 1,87 \cdot 1,0036363 = 1,8768$$

numerus, cujus logarithmus = $A = 0,6295681$. Cæterum apparet, hanc formulam cum præcedente eodem redire.

§. 65. Tabula XI ad construendam Logisticam adhiberi potest, Tab. XI. et ad hunc finem eam olim computaveram. Abscisæ x sunt logarithmi, et Ordinatæ e^x referunt numeros eorum, in progressionem Geometricam. Subtangens hic est = 1.

§. 66. In Tabula XVI, desumpta ex cl. Euleri Introductione in Tab. XVI. *Analysin infinitorum*, occurrunt Logarithmi hyperbolici ab 1 usque 10 in notis decimalibus 25.

L I N T R O D U C T I O .

Tab. XVII. Tab. XVII continet omnes numeros ab 1 usque 1000, non habentes alium Factorem præter 2, 3, 5, 7. Hinc eorum logarithmi ope Tabulæ XVI. sola additione inveniri possunt. Sic numerus

$$6804 = 2^2 \cdot 3^5 \cdot 7$$

2 log. 2 =	1,38629	43611	19890	61883	44642
5 log. 3 =	5,49306	14433	40548	45697	62260
log. 7 =	1,94591	01490	55312	30510	54639
log. 6804 =	8,82526	59535	15751	38091	61541

Numerus proxime major Tabula 17 est

$$6860 = 2^2 \cdot 5 \cdot 7^3$$

proinde

$$\log. 6860 = 2 \log. 2 + \log. 5 + 3 \log. 7. \quad \psi$$

Si quærendus esset logarithmus pro numero inter 6804 et 6860 interjecto, utendum esset Interpolatione; quem in finem serviunt

Tab. XII. formulæ Tab. XII. Sic v. g. est

$$\log. 6805 = \log. 6804 + \log. \left(1 + \frac{1}{6804}\right)$$

$$\log. 6806 = \log. 6804 + \log. \left(1 + \frac{1}{3402}\right)$$

$$\log. 6807 = \log. 6804 + \log. \left(1 + \frac{1}{2268}\right)$$

$$\log. 6808 = \log. 6804 + \log. \left(1 + \frac{1}{1701}\right)$$

* * *

$$\log. 6810 = \log. 6804 + \log. \left(1 + \frac{1}{1134}\right)$$

$$\log. 6811 = \log. 6804 + \log. \left(1 + \frac{1}{972}\right)$$

et generatim

$$\log. (6804 + a) = \log. 6804 + \log. \left(1 + \frac{a}{6804}\right)$$

§. 67. Si vero desideremus semper computare cum numeris integris, res redit ad hoc problema: *Ut exprimatür quævis quantitas per seriem fractionum, se multiplicantium, et ubi quivis numerator a suo denominatore differt unitate.* Cumque hoc succedat diversis modis desideratur insuper, *ut hæ fractiones inter omnes possibiles citissima convergant.* Modus procedendi, quo satisfit huic problemati, optime declarabitur exemplis.

§. 68. Sit v. g. Fractio

$$\frac{9293}{9216}$$

ψ Videatur nota * ad §. 26.

mutanda in talem seriem fractionum. Cum hæc fractio sit

$$\frac{9293}{9216} = 1 + \frac{77}{9216}$$

dividatur 9216 per 77, et est Quotus paulo minor quam 120. Jam addatur ad

$$\begin{aligned} \dots \quad 9216 \dots &= A \\ \text{valor } \frac{9216}{120} &= \frac{76,8}{9292,8} = B \end{aligned}$$

hæc summa subducta de dat Residuum

$$\frac{9293,0}{0,2} = C.$$

Jam est $\frac{B}{C} = \frac{92928}{2} = 46464.$

Atque inde obtinetur $\frac{9293}{9216} = \frac{121}{120} \cdot \frac{46465}{46464}$

ac proinde

$$\log. 9293 = \log. 9216 + \log. \left(1 + \frac{1}{120}\right) + \log. \left(1 + \frac{1}{46464}\right)$$

§. 69. Hæc computatio etiam peragi potest ratione sequente; ponatur

$$\frac{9293}{9216} + \frac{x+1}{x}$$

erit $1 + \frac{77}{9216} = 1 + \frac{1}{x}$

ac proinde cum x desideretur in numeris integris,

$$x = 120.$$

Jam ponatur porro

$$\frac{9293}{9216} = \frac{121}{120} \cdot \frac{y+1}{y}$$

erit $\frac{9293 \cdot 120}{9216 \cdot 121} = \frac{y+1}{y}$

Jam cum $\frac{9293 \cdot 120}{9216 \cdot 121} = \frac{(9216 + 77) \cdot 120}{9216 \cdot (120 + 1)} =$

$$\frac{9216 \cdot 120 + 77 \cdot 120}{9216 \cdot 120 + 1 \cdot 9216}$$

$$= 1 + \frac{77 \cdot 120 - 9216}{9216 \cdot 121} = 1 + \frac{24}{9216 \cdot 121}$$

$$= 1 + \frac{1}{384 \cdot 121} = 1 + \frac{1}{46464}$$

est igitur

$$1 + \frac{1}{46464} = \frac{y+1}{y} = 1 + \frac{1}{y}$$

sic habetur ut ante

$$\frac{9293}{9216} = \frac{121}{120} \cdot \frac{46465}{46464}$$

§. 70. Si data quantitas habet fractiones decimales, computatio fit methodo aliquantum mutata. Sit v. g. quærendus logarithmus hyperbolicus de

$$\pi = 3,141592\ 653589\ 793238\ 462643, \text{ etc.}$$

Numerus proximus in Tabula XVII est

$$3136 = 2^6 \cdot 7^2$$

proinde

$$3,136 = 2^6 \cdot 7^2 : 10^4$$

Et sic est fractio proposita

$$\frac{3,1415926 \text{ etc.}}{3,136} = 1 + \frac{0,005592653 \text{ etc.}}{3,136} = 1 + \frac{1}{560 +}$$

itaque

$$3,136 \cdot \frac{561}{560} = 3,1416$$

$$\pi = \frac{3,14159265358979}{0,00000734644121}$$

Porro est in numeris integris

$$\frac{3,1416}{0,00000734641021} = 427636.$$

Proinde fit

$$3,1416 \cdot \frac{427635}{427636} = 3,141592653565181603045581$$

$$\pi = \frac{3,141592653589793238462643}{0,00000000024611635417062}$$

hic quoque rursus est in numeris integris

$$\frac{3,14159265356518 \text{ etc.}}{0,0000000002461 \text{ etc.}} = 127646643562 \times$$

Hac ratione continuari potest, si de π semper plura loca decimalia in computationem veniant. Hinc invenitur.

$$\pi = 3,136 \cdot \frac{561}{560} \cdot \frac{427635}{427636} \cdot \frac{127646643563}{127646643562} \text{ etc.}$$

Est itaque

log:

$$\begin{aligned} \log. \pi &= 6 \log. 2 + 2 \log. 7 - 3 \log. 1c \\ &+ \log. \left(1 + \frac{1}{560}\right) \\ &+ \log. \left(1 - \frac{1}{427636}\right) \\ &+ \log. \left(1 + \frac{1}{127646643562}\right) + \text{etc.} \end{aligned}$$

Apparet hic generatim, numeros cujusque fractionis esse majores quadrato proxime præcedentis, et hac ratione fractiones convergere quam celerrime.

§. 71. Jam ut ope talium Fractionum inveniantur logarithmi, secunda fractio continua Tabulæ XII. aptissima et maxime convergens est. Modum cum ea procedendi hic tamquam cognitum præmittere possum, utpote qui in compluribus scriptis Mathematicis et in meis Additamentis optime deductus invenitur. Sic v. g.

pro $\log. \left(1 + \frac{1}{560}\right)$

computatio sequens locum habet :

	<i>Numerator</i> 1	<i>Denominator</i> 0
560	. . . 0	. . . . . 1
2	. . . 1	. . . . . 560
1680	. . . 2	. . . . . 1121
1	. . 3361	. . . 1883840
2800	. . 3363	. . . 1884961
$\frac{2}{3}$	. 9419761	. . 5279774640
3920	. 6283203 $\frac{2}{3}$	. . 3521734721
etc.	24639578234 $\frac{1}{3}$	13810479880960
	etc.	etc.

Proinde $\log. \left(1 + \frac{1}{560}\right) = \log. \frac{561}{560}$

secundum ordinem semper accuratius exprimitur per fractiones sequentes :

$$\begin{array}{r}
 1 \\
 \hline
 560 \\
 2 \\
 \hline
 1121 \\
 3361 \\
 \hline
 1883840 \\
 3363 \\
 \hline
 1884961 \\
 9419761 \\
 \hline
 5279774640 \\
 6283203 \frac{2}{3} \\
 \hline
 3521734721 \\
 24639578234 \frac{1}{3} \\
 \hline
 13810479880960 \\
 \text{etc.}
 \end{array}$$

Hæ fractiones insuper sunt hujus conditionis, ut differentia quarumque duarum proxime subsequen-
 tium faciat fractionem, cujus numerator est 1. Denominator vero productum utriusque Denomi-
 natoris. Hinc minimo negotio apparet, quam celeriter convergant
 tales fractiones. Prima pertingit usque ad sextum locum decima-
 lem, secunda usque 9^{num}, tertia usque ad 12^{num}, quarta usque
 ad 15^{tum}, quinta usque ad 19^{num}, sexta usque ad 23^{tum}, septima
 usque ad 26^{tum}; et sic semper continuatur.

§. 72. Problema conversum, nempe: *Ad datum logarithmum
 inventre numerum ei competentem*, simili ratione resolvi potest. Lo-
 garithmus itidem mutatur in seriem Fractionum maxime convergen-
 tium, quæ autem addendæ sunt, et quarum numerator est = 1,
 denominatores autem numeri integri. Modus hoc peragendi itidem
 occurrit in secundo Tomo meorum Additamentorum. Cæterum in-
 tellectu facillima est. Datus logarithmus sit:

$$\begin{array}{l}
 \log. \pi = 1,144729885849400174 \text{ etc.} \\
 1 = 1 \\
 \hline
 \frac{1}{7} = 0,144729885849400174 \text{ etc.} \\
 \hline
 \frac{1}{7} = 0,142857142857142857 \text{ etc.} \\
 \hline
 \frac{1}{14} = 0,001072742992257317 \text{ etc.} \\
 \hline
 \frac{1}{14} = 0,001872659176029962 \text{ etc.} \\
 \hline
 \frac{1}{119\frac{1}{337}} = 0,00000083816227354 \text{ etc.} \\
 \hline
 \frac{1}{119\frac{1}{337}} = 0,00000083816184402 \text{ etc.} \\
 \hline
 \frac{1}{119\frac{1}{337}} = 0,00000000000042952 \text{ etc.}
 \end{array}$$

Posito jam duce Tabula X

Tab. X.

est $\log. e = 1$

$$\begin{aligned} \pi &= e^{1/\pi} = e^{1,1447} \text{ etc.} \\ &= e^1 + \frac{1}{7} + \frac{1}{514} + \frac{1}{1193087} + \text{etc.} \\ &= e \cdot e^{\frac{1}{7}} \cdot e^{\frac{1}{514}} \cdot e^{\frac{1}{1193087}} \cdot \text{etc.} \end{aligned}$$

Hæ expressiones jam ope alicujus formulæ Tab. X, quælibet pro se computari, et tum in se multiplicari possunt.

§. 73. Tab. XVIII. continet formulas, quæ referuntur ad Sectores hyperbolicos eodem modo, sicut formulæ trigonometricæ si-Tab. XVIII. miles referuntur ad Sectores seu arcus circulares. De quibus in sequentibus occasione aliarum Tabularum agam fusius.

V.

Tabulæ Functionum Circularium.

§. 74. **I**nitium harum Tabularum facit Tab. XIX. Ea continet Tab. sinus de 3 ad 3 gradus in formulis Algebraicis secundum valorem XIX. absolutum. Et in tantum ex his non solum dari possunt rationes speciales inter hos Sinus, Cofinus, Tangentes et secantes, etc. quam exactissime, sed serviunt etiam in casibus specialibus ad calculos exactissimos, et ad Theoremata secundum rigorem exprimenda, quæ ope Tabularum trigonometricarum tantum ad septem notas decimales determinari possent. Doctrina Polygonorum corporumque regularium etc. diversa ex inde nanciscitur emolumenta.

§. 75. Sequens Tabula XX. continet formulas, quæ sunt Ba-Tab. XX. sis omnium calculorum trigonometricorum. Usus illius supponere debeo cognitum. Cæterum comparari potest cum similibus formulis hyperbolicis Tabulæ XVIII., de quibus, ut jam annui, etiam porro sermo erit.

§. 76. Tabula XXI. repræsentat propositiones utilissimas et Tab. omnes casus Trigonometriæ rectilinéæ et sphæricæ. Præcipue XXI. Triangula obliquangula secundum tenorem Theoriæ in Tomo 1. meorum Additamentorum in quatuor casus principales divisi sunt. Nempe semper 4 partes Trianguli obliqui in calculo occurrunt; scilicet:

1. Aut tria latera et unus Angulus.
2. Aut tres anguli et unum latus.
3. Aut quatuor partes se subsequentes.
4. Aut quatuor partes sibi oppositæ.

Hoc modo hi quatuor casus præcipui conspicui sunt; et in quolibet casu formula illi serviens semper sine deliberatione invenitur. Ultima pagina hujus Tabulæ XXI. repræsentat casus, in quibus, si computetur cum logarithmis, ducenda est linea perpendicularis. Hi quoque dividantur in 4 casus, ut inveniantur formula illi serviens quam citissime.

Tab.
XXII.

§. 77. Tabula XXII. refert in fractionibus rationalibus aliquos calculos cyclometricos, et eorum rationes eo modo, ut quamvis nulla fractio sit exacta, ex tamen sint accuratiores quam quævis alia fractio numeris minoribus expressa. Apparet, has fractiones repræsentari in seriebus, et ante quamlibet seriem ratio nominatim exprimitur. In tantum tres priores series per se claræ sunt. Reliquæ tres indigent explanatione.

Quarta refertur ad comparationem *Areae circuli ad quadratum ei æquale*, ita, ut in quavis fractione sit Numerator: ad Denominatorem, ut Diameter circuli; ad latus quadrati; quod æquale continet spatium.

Series quinta confert *globum cum cubo æqualis spatii*, ita ut Numerator sit ad Denominatorem, ut Diameter ad cubi latus, globo æqualis. *Sexta comparat Cylindrum, cujus altitudo æquatur diametro, cum cubo spatii æqualis*; ita, ut in quavis fractione sit Numerator ad Denominatorem, ut Diameter aut etiam altitudo talis cylindri, ad cubi latus, qui æquale spatium continet. Omnes hæ Fractiones ita ordinatæ sunt, ut in qualibet serie sequentes sit accuratiores præcedentibus.

Ut igitur appareat, quam accurata quælibet sit, solum subtrahenda est a proxime subsequente. Residuum semper erit fractio, cujus numerator = 1; denominator vero productum denominatorum ambarum fractionum. Cæterum apparet seriem primam inferius magis extensam iterum occurrere.

In hac pagina potro occurrit series pro circumferentia circuli, ubi in Denominatoribus numeri Romani VIII. IX. X. XIII. XIV. indicant, quot zeri adjiciendi sint. Illa servit loco numerorum *Ludolphianorum* usque ad 14 loca decimalia; et in quavis fractione cognoscitur, quousque extendatur.

Tab.
XXIII.

§. 78. Sequens Tabula XXIII. exhibet longitudinem arcuum circuli in 27 notis decimalibus ab 1 gradu usque 100; et inde de 30 ad 30°; sicut etiam pro minutis et secundis. Occurrunt non nunquam, præsertim in Astronomia, casus, ubi desideratur absoluta arcuum longitudo, etiamsi non ad tantas decimales.

Tab.
XXIV.

§. 79. Tabula XXIV. vix exigit explanationem. Sunt casus, ubi

ubi Sinus et Cofinus 5 arcuum minimorum desiderantur accuratissime. Ad hoc sumpsi pro basi arcum de 10000 secundis, et m indicat rationem hujus arcus ad quemvis datum. Inde declaratur formula pro Sinu U et Cof. U in prima pagina hujus Tabulæ. Altera pagina incipit cum numeris *Ludolphianis* a *Lamy* magis extensis. Sequuntur logarithmi Briggiani pro his numeris, sicut et pro longitudine 1 gradus, 1 minuti, 1 secundi etc.

§. 80. Tabula XXV. quodammodo est Tabula multiplicatoria Tab. pro Sinibus graduum, quia hos Sinus per 1, 2, 3, 9 multiplicatos in tot columnas distinctos offert. Hic abacus Sinuum utilissimus mihi fuit in computandis Tabulis Astronomicis, quales occurrunt in II. parte *Additamentorum*. Eadem ratione usum habet in aliis casibus ubi de gradu ad gradum computandum est.

§. 81. Tandem etiam pro casibus, ubi de gradu ad gradum computandæ sunt Tabulæ, adjeci Tabulam XXVI, quæ continet generatim Functiones arcuum de gradu ad gradum. Suppono E. g. adesse Tabulam decimalem declinationis pro obliquitate de $23^{\circ} 28'$ computandam. Describatur ex Tabulis consuetis Logarithmus Sinus $23^{\circ} 28'$ ad schedulam, ita, ut posita ad columnam Logarithmi Sinus Tabulæ, numeri omnium stationum juxta se ponantur. Hac ratione hic logarithmus scriptus ad schedulam addi potest ad quemvis logarithmum Tabulæ et summa scribi speciatim, absque necessitate, quidquam aliud exscribendi. Hæc schedula de gradu ad gradum protruditur, quoties aliqua summa notata est. Hoc exemplum sufficit ad ostendendum, quam commode iste Abacus servire possit in aliis casibus innumeris.

VI.

Tabulæ ad Solutionem Æquationum.

§. 82. **P**rima harum Tabularum, quæ est XXVII præferret æqua-
tionem in genere, exprimens valorem cujusque radicis x in forma fractionis ita, ut qui valor in hac fractione pro y ponitur, fractio det valorem ipsi x propiorem $= x'$. Hæc formula generalis in eadem Tabula invenitur pro æquationibus 2ⁱ, 3ⁱⁱ, 4^{ti}, et 5^{ti} gradus seorsim expressa. Cæterum eam deduxi ex *Methodo Newtono-Halleijana* ad inveniendas radices approximatione; et in tantum etiam accidere possunt casus, ubi x magis redicit ab x' quam y . Cum autem habeatur electio libera ponendi pro y alium valorem, hoc parum refert, si enim æquatio saltem unum habeat valorem realem, formula semper usum habet. Si e contrario æquatio habet

meras radices imaginarias, ponendus etiam pro y valor imaginarius formæ

$$y = A + \sqrt{-B}$$

§. 83. Cum in qualibet æquatione ultimum membrum sit productum omnium radicum, Theorema (§. 31.) superius expositum etiam hic applicari potest. Si enim æquatio sit de gradu n , ultimum membrum est productum ex n radicibus. Proinde extracta n^{ta} radice ex ultimo membro, hæc cadit intra radicem æquationis, seu æquatio habet tam majores quam minores radices quam est n^{ta} radix ultimi membri. Supponitur autem, omnes radices esse reales.

§. 84. Pari ratione liquet, diviso membro penultimo per numerum radicum, et extracta ex quoto $(n-1)^{\text{ta}}$ radice, hanc radicem itidem cadere intra terminos radicum æquationis.

§. 85. Similes Positiones etiam inveniri possunt pro Coefficientibus reliquorum membrorum cujusque æquationis. Et inde declarantur formulæ in fine Tabulæ XXVII. occurrentes.

§. 86. Invento hac ratione valore, cadente intra radices datæ æquationis, poni potest iste valor pro y in fractione (§. 82.) ad obtinendum valorem pro x radici æquationis propiorem. Iste tandem rursus ponitur pro y , et sic continuatur, donec habeatur valor tam prope accedens, ut desideratur.

§. 87. Habeatur v. g. Æquatio

erit

$$x^5 - 5x^3 - 14x + 3 = 0$$

$$a = c = 0$$

$$b = -5$$

$$d = -14$$

$$e = +3$$

proinde

$$x' = \frac{4y^5 - 10y^3 - 3}{5y^4 - 15y^2 - 14}$$

Cum hic statim poni potest

$$\sqrt[5]{3} = 1 + \dots$$

hoc facit

$$y = 1$$

$$x' = \frac{4 - 10 - 3}{5 - 15 - 14} = \frac{9}{24} = \frac{3}{8}$$

Si ponatur porro

$$y = 0, 3$$

obtinetur

$$x' = 0, 213 \dots$$

Si ponatur

$$y = 0, 21$$

obtinetur

$$x' = 0, 21096 \dots$$

etc.

Ab inde convergunt valores sequentes celerrime. Ut autem experiamur, qua lege; fiat

$$y = x + z$$

inde obtinetur pro x' Numerator :

$$4y^5 - 10y^3 - 3 = 4x^5 + 20x^4z + 40x^3z^2 + 40x^2z^3 + 20xz^4 + 4z^5 \\ - 10x^3 - 30x^2z - 30xz^2 - 10z^3 \\ - 3$$

et Denominator

$$5y^4 - 15y^2 - 14 = 5x^4 + 20x^3z + 30x^2z^2 + 20xz^3 + 5z^4 \\ - 15x^2 - 30xz - 15z^2 \\ - 14$$

Ad Numeratorem addatur ad æquandum Coefficientem primi membri primo membro Denominatoris, data æquatio

$$0 = x^5 - 5x^3 - 14x - 3$$

et summa

$$4y^5 - 10y^3 - 3 = 5x^5 + 20x^4z + 40x^3z^2 + 40x^2z^3 + 20xz^4 + 4z^5 \\ - 15x^3 - 30x^2z - 30xz^2 - 10z^3 \\ - 6$$

dividatur per Denominatorem; et erit Quotus

$$x' = x + \frac{2z^2}{x} - \frac{4z^3}{x^2} - \text{etc.}$$

Inde liquet, Differentiam $z = y - x$ decrescere ut quadratum de z , quam primum incipit esse $z < x$.

§. 88. Sumpto pro y numero ingenti, obtinetur

$$x' = \frac{4y^5 - \text{etc.}}{5y^4 - \text{etc.}} = \frac{4}{5}y - \text{etc.}$$

Et proinde acceditur ad radicem majorem (negativam aut positivam) parte $\frac{1}{5}$. Sic E. g. posito $y = -10$, invenitur

$$x' = \frac{-390003}{+48486} = -8 \dots$$

Observatur simul hic, y poni posse notabiliter minus. Posito $y = -5$, obtinetur

$$x' = \frac{-11253}{+2736} = -4, 11 \dots$$

quod itidem non differt multum a ratione $y : x = 5 : 4$. Posito vero $y = -2$; invenitur

$$x' = \frac{-51}{+6} = -8,5.$$

Hic proinde est casus, ubi x' a valore radice recedit. Inde consequitur, æquationem inter -5 et -2 habere unam realem aut impossibilem (imaginariam) radicem. Posito proinde $y = -3$, habetur

$$x' = \frac{-705}{+256} = -2,7\dots$$

Et posito $y = -2,7$, invenitur $x' = -2,67\dots$. Atque inde hic se offert radix realis.

Tab.
XXVIII.
XXIX.

§. 89. Ne his diutius immorer, convertor ad sequentes duas Tabulas. XXIX exhibet in numeris, quod offert XXVIII in formulis et exemplis. Ambæ pertinent ad æquationes cubicas, quarum omnes radices sunt reales. Talis æquatio generatim sit, quæ sequitur:

$$0 = z^3 + Az^2 + Bz + C.$$

Expungatur membrum secundum, ut habeatur forma

$$0 = y^3 + * - \epsilon y + \gamma$$

Jam ponatur

$$y = x. \sqrt{\epsilon}$$

mutatur hæc æquatio in hanc

$$0 = x^3 - x + \gamma : \epsilon \sqrt{\epsilon}.$$

Et posito

$$\gamma : \epsilon \sqrt{\epsilon} = \pm a$$

obtinetur semper aut

$$x - x^3 = a.$$

aut

$$x^3 - x = a.$$

Et hæc sunt duæ formulæ Tabulæ XXVIII, et in genere duo diversi casus, ubi omnes radices esse possunt reales.

§. 90. In quantum vero omnes tres radices reales sunt, hoc simpliciter dependet a valore de a . Hoc intento differentientur ambæ æquationes ad determinandum maximum valorem possibilem pro a . Et tum obtinetur

$$dx - 3x^2 dx = 0$$

proinde

$$x = \sqrt{\frac{1}{3}} = \text{tang. } 30^\circ = 0,5773503\dots$$

Quo valore posito in ambabus æquationibus obtinetur:

$$\pm a = \sqrt{\frac{4}{27}} = \frac{1}{3} \sqrt{\frac{4}{3}} = \frac{1}{3} \text{sec. } 30^\circ = 0,3849002\dots$$

Et ita possibilitas trium radicum realium in terminis de $a = \pm 0,3849002\dots$ comprehenditur.

§. 91. In hoc fundatur jam Tabula XXIX, referens pro quovis valore de a radices ad ambas æquationes pertinentes

$$\begin{aligned} x - x^3 &= a \\ x^3 - x &= a \end{aligned}$$

ita, ut 3 valores de x sola evolutione valoris de a haberi possint, si contenti simus tribus notis decimalibus.

§. 92. Si vero x desideretur in 7 decimalibus, res redit ad aptam interpolationem, quam declarabo exemplo Tabula XXVIII proposito. Sit proinde æquatio:

$$z^3 - 3z - 1 = 0$$

ponatur

$$z = x \sqrt{3}$$

et habetur

$$x - x^3 = 0,1924501 = a.$$

Hinc pro tenore Tabulæ XXVIII duæ radices minores sunt affirmativæ, major negativa.

§. 93. Jam invenitur in Tabula XXIX valor de

$$a = 0,1924501$$

in tribus locis diversis

$$1.^{\circ} \text{ intra } x = 0,200 \text{ et } x = 0,201$$

$$2.^{\circ} \text{ intra } x = 0,884 \text{ et } x = 0,885$$

$$3.^{\circ} \text{ intra } x = 1,085 \text{ et } x = 1,086.$$

Possunt itaque hi tres valores de x considerari ut termini trium radicum.

§. 94. Posito jam pro prima harum radicum

$$x = 0,2 + n$$

obtinetur

$$0,192 + 0,88n - 0,6n^2 - n^3 = 0,1924501.$$

Jam cum hic $n < \frac{1}{1000}$, et inde $n^3 < \frac{1}{1000000000}$, ista expressio sine scrupulo omitti potest. Itaque mutatur Aequatio in

$$0,88n - 0,6n^2 = 0,0004501$$

unde consequitur

$$n = \frac{0,0004501}{0,88 - 0,6n} = 0,0005118$$

$$x = 0,2005118.$$

Eædem expressiones inveniuntur in exemplo proposito in Tabula XXVIII, hoc solo discrimine, quod ibi primæ, et secundæ differentiæ trium valorum de a sibi subsequentiis adhibeantur, ut inveniatur æquatio

$$1920000 + 8800n - 6n^2 = 1924501.$$

Apparet, idem esse; solum usus differentiarum contrahit calculum.

§. 95. Sit

$$\sqrt[4]{a} = \sqrt{\frac{4}{27}}, \text{ habentur duæ radices æquales :}$$

$$\sqrt{x} - \sqrt{\frac{1}{3}} = 0$$

$$\sqrt{x} - \sqrt{\frac{1}{3}} = 0; \text{ et tertia radix tandem est :}$$

$$\sqrt{x} - \sqrt{\frac{4}{3}} = \text{sec. } 30^\circ = 1,1547005.$$

Apparet etiam inde, quare Tabula tantum extendatur usque

$$\sqrt{x} = 1,155.$$

Potuisset quidem continuari, et quidem in infinitum. Verum tum debuisset alicubi interrumpi; hinc præstabat, eam tantum eo usque extendere, quousque casus trium radicum possibilium locum haberet. Et hoc intuitu Tabula jam habet quidquam absolutum, et completa est in genere suo.

Tab. XXX.

§. 96. Tabula XXX itidem attinet æquationes cubicas, et quidem omnia earum genera. Primum est, ubi omnes tres radices sunt possibiles; et hæc semper per trisectionem arcus circuli solvi potest. Res redit ad 4 formulas, quæ abolito secundo æquationis membro monstrant computationes porro necessarias. Hæ quatuor formulæ inveniuntur in prima repartitione Tabulæ. Datur v. g. æquatio :

$$z^3 - 3z - 1 = 0$$

critique

$$a = 3$$

$$b = 1$$

$$c = 2$$

$$\text{cof. } 3 \omega = \frac{1}{2} = 0,5000000$$

$$3 \omega = 60^\circ, = 60^\circ + 360^\circ, = 60^\circ + 720^\circ$$

$$\omega = 20^\circ, = 140^\circ, = 260^\circ$$

$$z = 2 \text{ cof. } 20^\circ, = 2 \text{ cof. } 140^\circ, = 2 \text{ cof. } 260^\circ$$

proinde tres radices :

$$z = + 2 \text{ sin. } 70^\circ = + 1,8793852 \dots$$

$$z = - 2 \text{ sin. } 50^\circ = - 1,5320888 \dots$$

$$z = - 2 \text{ sin. } 10^\circ = - 0,3472964 \dots$$

Inde liquet, esse

$$\text{sin. } 10^\circ + \text{sin. } 50^\circ = \text{sin. } 70^\circ.$$

Summa enim trium radicum est = 0. Cæterum in hac æquatione apte successit, ut cof. $\omega = \frac{1}{2}$ inveniatur exacte in Tabula. In plurimis casibus autem hoc non evenit; et tum arcus 3ω non solum in gradibus et minutis, sed etiam in secundis et eorum decimalibus inquirendus est; si desideretur valor de z accurate usque ad 7 loca decimalia.

§. 97. Altera Repartitio Tabulæ XXX. itidem attinet æquationem

$$0 = z^3 - az - b$$

pro iis casibus, ubi unam solum habet radicem possibilem. Hoc semper inde liquet, quando invenitur

$$\text{cos. } \omega = \frac{4b}{r^3} > 1.$$

Cum enim nullus Cofinus $>$ radio, qui hic $= 1$; nihil consequimur *trisectione arcus circuli*. E contrario trisectione Sectoris hyperbolici utique aliquid obtineri potest; quia Cos. hyperb. semper est > 1 . Hinc etiam in secunda repartitione Tabulæ expressio $4b : r^3$ comparatur cum Cofino hyperbolico.

Quid sint Sinus et Cofinus hyperbolici liquet ex Tab. XXXIII, Tabula XXXIII ubi comparatio Hyperbolæ æquilateræ cum circulo respectu functionum similium occurrit. Eodem subsidio comprehenditur etiam Tabula XVIII. superius (§. 73. 75) allegata, ubi brevitatis ergo ponitur:

- S. h. idem ac Sinus hyperbolicus
- Cof. h. Cofinus hyperbolicus
- Tang. h. Tangens hyperbolica.

Hæ functiones semper reducuntur ad Sectorem hyperbolicum, cuius generis est $QCqQ$. Angulus qCQ communis est Hyperbolæ cum circulo; e contrario angulum PCQ vocavi transcendentem, quia in hoc subsistit comparatio Circuli et Hyperbolæ. Nam

1. Sinus hyperbolicus $pq = PQ$; et PQ est Tangens anguli transcendentis PCQ .

2. QT Tangens est anguli communis TCQ . Cum autem $QT = RS$; et RS sit Sinus anguli transcendentis PCQ ; liquet etiam inde, quomodo hic angulus ducat a Circulo ad Hyperbolam. Tab. XII

3. Denique est Cofinus hyperbolicus $Cp = CP$; et CP est Secans anguli transcendentis PCQ .

§. 98. Posito proinde angulo transcendente pro basi, ut fit in Tab. XXXII; tantum consideretur:

- Tang. PCQ ut Sin. hyp. $qCQq$,
- Sec. PCQ ut Cof. hyp. $qCQq$,
- Sin. PCQ ut Tang. hyp. $qCQq = \text{Tan. ang. } qCQ$.

Tabula XXXII

Et hæ functiones hyperbolice statim ex Tabulis Trigonometricis jam computatis exscribi possunt. Sector $qCQq$ invenitur, bisecto angulo transcendente PCQ ; dimidio addito ad 45° , et sumpto Logarithmo Tangentis hujus summæ. In Tabula XXXII. ad hoc tantum adhibui Logarithmos tabulares *Briggii*. Cumque hæ Tabula tantum progrediatur de gradu ad gradum, proprie tantum servit

vit pro forma Tabulæ quæ progredi deberet de minuto ad minutum.

Tabula
XXX

§. 99. Jam ut revertamur ad secundam Repartitionem Tab. XXX, adducam pro exemplo æquationem

$$x^3 - 3x - 4 = 0.$$

Hic proinde est

$$a = 3$$

$$b = 4$$

ideoque

$$r = 2$$

$$\frac{4b}{r^3} = 2 = \text{Cof. hyp. } 3 \omega$$

Huic Cof. hyp. = 2 responderet in Tab. XXXII.

$$\text{Sector } \omega 3 = 0,5719475$$

ac proinde pars tertia Sector $\omega = 0,1906492$

huic Sectori rursus responderet

$$\text{Cof. h. } \omega = 1,0979133$$

et inde est

$$x = r. \text{ Cof. h. } \omega = 2,1958266$$

radix quæsitæ et unica possibilis datæ æquationis.

§. 100. Cum functiones hyperbolicæ itidem sint functiones circulares (§. 98.) facile intelligitur, hanc æquationem etiam resolvi potuisse per functiones circulares; verum paulo longinquius. Interea repræsentat tertia repartitio Tab. XXX. formulas ad hoc necessarias. Inde apparet, ibi extrahi debere radicem cubicam, ampliusque requiri transformationem in secunda repartitione superfluam.

§. 101. Restat tandem tertius casus, ubi

$$0 = z^3 + az - b$$

Iste casus exhibetur in quarta et quinta repartitione; in quarta adhibentur Sinus hyperbolici; in quinta autem functiones circulares, ubi autem extrahenda est radix cubica. Hoc vero intellectis præmissis jam non indigebit explicatione ulteriore.

Tabula
XXXIV

§. 102. Convertero itaque ad Tabulam XXXIV, quæ repræsentat in tribus repartitionibus *diversos casus æquationum biquadraticarum*. Prima repartitio continet solutionem harum æquationum ope *trisectionis arcus circularis*. Conditiones, ut patet ex formulis, sunt:

1. $AA + 12C$ esse *quantitatem positivam*. Nisi hoc sit, reciditur in repartitionem tertiam. Si vero sit

2. Expressio

$$\frac{D}{r} < 1$$

fit

fit oportet. Si enim $D:r > 1$, deveniretur ad secundam repartitionem.

Jam si ambæ hæc conditiones locum habeant ; prima repartitio semper dat solutionem æquationis , radices sint possibiles , vel minus. Cæterum hanc operationem in secundo Tomo meorum Additamentorum fusius pertractavi.

§. 103. Ex dictis ultimo loco simul liquet, quando recidatur ad repartitionem secundam vel tertiam. Apparet, in ambobus occurrere trisectionem Sectoris hyperbolici, qui in secunda repartitione per suum Cosinum, in tertia per suum Sinum determinatur. Porro hæc Tabula non requirit explicationem. Solum ad hunc, aliosque intentus operandum esset, ut Tabula XXXII computata esset de minuto ad minutum. Illa servire posset cum magnis emolumentis, usque adeo in computationibus Geometricis, ut alibi demonstrabo fusius. Tabula XXXII.

VII.

Tabula ad Extractions Radicum.

§. 104. **R**adices quadraticæ præcipue ob Theorema *Pythagoricum* usitatissimæ sunt. Cubicæ ut plurimum in *Stereometria* ; altiores multo rarius occurrunt. Propterea in Tabula XXXV proposui numeros quadratos, et in 36^{ta} numeros cubicos ; et quidem brevitatis ergo solum ab 1 usque 1000 ita ut in compendiosa forma reliquis Tabulis adjungi possent. ω . Ampliores inveniuntur apud *Ludolphum*, et *Buchnerum*. Tabula XXXV
Tabula XXXVI

§. 105. Tabula XXXIV. continet in prioribus duabus repartitionibus aliquas expressiones, quæ non exigunt explicationem. In repartitione tertia occurrit *Formula generalis*, ex qualibet quantitate invenire quamlibet radicem approximando, radice jam ad aliquem terminum deducta. Applicatio ad radices quadratas et cubicas simul adjuncta est. Formula generalis, sicut et hæc duæ speciales proprie sunt series infinitæ, progredientes secundum dignitates de $(p : a)$. Sed adhibetur tantum membrum primum, et tum servit secundum ad indicandum, quousque deveniatur quovis passu per primum. Sic v. g. quando Tabula XXXIV

$$\frac{p}{a} < 0,00001$$

ω Tabula primarum decem Potentiarum ab 1 usque 1000 ad diversos usus accommodatissima incendio perit, sed restaurabitur Fautorum benevolentia.

fit

$$\left(\frac{p}{a}\right)' < \infty, \text{ooooooooooooooooooooo1}$$

et eo usque, immo ad 2 aut 3 loca decimalia amplius tum primum membrum est exactum. Jam ope logarithmorum inveniri potest quævis radix usque ad 6 aut 7 locum decimalem, et tandem ope harum formularum extendi ad 18 usque loca decimalia. Res redit, ut apparet, semper ad Regulam Trium. Modus procedendi partim liquet ex ipsis formulis; partim declaravi in Tomo II. Additamentorum exemplo radices cubicæ de $\frac{1}{7}$ Tabula XXIV. occurrentis, quam ope talis Regulæ trium computavi usque ad 18 notas decimales.

Tabula
XXIV

§. 106. Si vero paucioribus decimalibus simus contenti, adhiberi possunt respectu radicum quadraticarum et cubicarum duæ ultimæ repartitiones Tabulæ XXXIV præter Tabulam XXXV. et XXXVI. Sit v. g. extrahenda radix cubica ex numero

$$2284322013.$$

Scribatur hujus numeri loco minoribus decimalibus

$$2284322,013$$

tum est in Tabula XXXVI. Cubus proxime minor

$$131^3 = 2248091$$

qui subtractus dat residuum

$$36231,013$$

proinde est

$$a^3 + b = 2284322,013$$

$$a^3 = 2248091.$$

$$b = 36231,013$$

$$a = 131$$

et

$$x = \frac{36231,013}{393} \cdot \frac{1}{131 + x + xx : 3a}$$

Jam est primo

$$\frac{36231,013}{393} = 92,19087 \dots$$

Proinde

$$\frac{92,19087}{131} = 0,7037 \dots$$

$$\frac{92,19087}{131,7037} = 0,6998 \dots$$

$$\frac{92,19087}{131,7\dots} = 0,7\dots$$

igitur

$$x = 0,7$$

$$a + x = 131,7.$$

Et radix quæsitæ = 1317, quæ hoc in exemplo præferret exacte radicem cubicam de 2284322013.

§. 107. Formula

$$x = \frac{b}{3a} \cdot \frac{1}{a+x+xx:3a}$$

x exprimit exacte; ac proinde applicari potest, quousque libuerit. Si autem radix cubica solum desideretur ad 6, aut 7 notas decimales, sumi potest simplicius

$$x = \frac{b}{3a} \cdot \frac{1}{a+x}.$$

Extrahenda sit radix cubica ex

$$45873642 = a^3 + b.$$

Cubus proxime minor est

$$a^3 = 357^3 = 45499293$$

proinde differentia

$$b = 374349.$$

Jam est

$$\frac{b}{3a} = \frac{374379}{1071} = 349,53221\dots$$

et

$$\frac{349,53221}{357} = 0,97\dots$$

$$\frac{349,53221}{357,97} = 0,9764\dots$$

Ac proinde radix quæsitæ

$$= 357,9764\dots$$

Cæterum hic æque apte sumi potuisset Cubus proxime major

$$a^3 = 358^3 = 45882712$$

quia hic a dato numero minus differt. Inde fuisset

$$b = -9070$$

$$\frac{b}{3a} = -\frac{9070}{1074} = -8,445065\dots$$

$$\frac{-8,445065}{358} = -0,0235\dots$$

$$\frac{-8,445065}{357,9769} = -0,023591. \text{ et.}$$

et in radice

$$= 357,976409.$$

Hi duo modi inquirendi radices documento sunt, in quantum compendia calculi in his adhibita usum habere possint.

VIII.

Tabula Numerorum Figuratorum.

§. 108. **H**anc Tabulam non extendi amplius, quam admisit spatium duarum columnarum octavi. Interea, in quantum extenditur, usum habebit opportunum; quia plurimi sunt casus, ubi prodest presentia numerorum figuratorum. Doctrina computandi verosimilitudines illi ut plurimum innititur. Eodem modo utilissima est ad determinandos Coefficientes; sicut etiam continet coefficientes formulæ binomialis *Newtoni*. Hæc Tabula est *Triangulum Paschalis*; et respici possunt multæ proprietates notabiles illius in *Arte conjectandi* Jac. Bernoullij. Hic sufficiet, eam etiam inter reliquas tabulas hic oblatas contineri.

Cæterum æquationes numerorum cujusque columnæ sunt:

I. x

II. $x \cdot \frac{x+1}{2}$

III. $x \cdot \frac{x+1}{2} \cdot \frac{x+2}{3}$

IV. $x \cdot \frac{x+1}{2} \cdot \frac{x+2}{3} \cdot \frac{x+3}{4}$

etc.

Pari ratione etiam se manifestant, si fractiones

$$\frac{1}{1-x}, \frac{1}{(1-x)^2}, \frac{1}{(1-x)^3}, \frac{1}{(1-x)^4} \text{ etc.}$$

resolvantur in series infinitas; item si a quantitatibus in seriem ordinatis $a, b, c, d, e, \text{ etc.}$ sumantur primæ, secundæ, tertix, etc. differentix; v. g. cum summis.

$$\begin{array}{l}
 a \\
 b \\
 c \\
 d \\
 e \\
 f
 \end{array}
 \left|
 \begin{array}{l}
 a+b \\
 b+c \\
 c+d \\
 d+e \\
 e+f
 \end{array}
 \right|
 \left|
 \begin{array}{l}
 a+2b+c \\
 b+2c+d \\
 c+2d+e \\
 d+2e+f
 \end{array}
 \right|
 \left|
 \begin{array}{l}
 a+3b+3c+d \\
 b+3c+3d+e \\
 c+3d+3e+f
 \end{array}
 \right|
 \text{ etc.}$$

etc. etc. etc.

aut etiam

$$\begin{array}{l}
 a \\
 b \\
 c \\
 d \\
 e
 \end{array}
 \left|
 \begin{array}{l}
 a \\
 a+b \\
 a+b+c \\
 a+b+c+d \\
 a+b+c+d+e
 \end{array}
 \right|
 \left|
 \begin{array}{l}
 a \\
 2a+b \\
 3a+2b+c \\
 4a+3b+2c+d \\
 5a+4b+3c+2d+e
 \end{array}
 \right|
 \left|
 \begin{array}{l}
 a \\
 3a+b \\
 6a+3b+c \\
 10a+6b+3c+d \\
 15a+10b+6c+3d+e
 \end{array}
 \right|
 \text{ etc.}$$

IX.

Tabula Interpolationum.

§. 109. **H**Æc Tabula est XXXVIII, quæ in quatuor repartitionibus continet casus magis obvios, ubi interpolantur quantitates. Tabula XXXVIII
 Problema generatim hoc est: Ponuntur duæ Quantitates x, y esse hujus conditionis, ut si x habeat valores m, n, p, q, r , etc. habeatur $y = \alpha, \zeta, \gamma, \delta, \epsilon$, etc. Jam est æquatio inter x et y inveniendâ, quæ satisfaciât his conditionibus. Quatuor casus jam sunt sequentes:

1. $y = a + bx + cx^2 + dx^3 + \text{etc.}$
2. $y = ax + bx^2 + cx^3 + dx^4 + \text{etc.}$
3. $y = ax + bx^3 + cx^5 + dx^7 + \text{etc.}$
4. $y = ax^2 + bx^4 + cx^6 + dx^8 + \text{etc.}$

Hi quatuor casus jam non sunt permutandi. Ut plurimum in usu sunt formulæ prima et secunda. Quando autem adhibentur, ubi tertia aut quarta adhibenda esset, non devenitur cum illis tam longè, ut cum posterioribus. Considerentur x ut Abscissæ, y ut ordinatæ linearum curvæ. Jam si pro $x = 0$, sit y aliquod Maximum vel Minimum, et curva sibi utrinque similis, converget formula quarta quam citissime. E contrario vero tertia hoc faciet, si pro $x = 0$, cadat y ad punctum conversionis (directionis) etc. Et in ambobus casibus, ut generatim in omnibus quatuor casibus fieri potest, ut nonnulli coefficientium fiant $= 0$.

§.

§. 110. Jam siquo in casu occurrente formula adhibenda vere sit finita, etiam coefficientes a, b, c, d , etc. quotquot eorum sint, accurati determinari possunt. In casu opposito in quolibet deerit quidquam. Et tum tantum curandum est, ut error sit minimæ notæ. Hoc fit, quando valores pro x sumpti: m, n, p, q, r , etc. magis accedunt inter se, et plures eorum sumuntur ad computationem.

§. 111. Verum non quærentur coefficientes a, b, c , etc. immediate; sed datur seriei assumptæ alia forma, ponendo v. g. loco primæ seriei, hanc:

$$y = A + B \frac{x-m}{m} + C \frac{x-m}{m} \cdot \frac{x-n}{n} + \text{etc.}$$

Et tum coefficientes A, B, C , etc. secundum ordinem accurate determinari possunt, ponendo successive $x = m, n, p, q, r$, etc. et

$$y = \alpha, \zeta, \gamma, \delta, \varepsilon, \text{ etc.}$$

Prima repartitio offert coefficientes A, B, C, D tam determinatos, ut lex progressionis facile cognoscatur; et ex inde, ubi necesse sit, etiam definiri possint sequentes. Tandem iidem hi casus adhuc determinati sunt pro casu simplicissimo, ubi m, n, p, q , etc. = 1, 2, 3, 4, etc. Facile cognoscitur, hic occurrere coefficientes formulæ binomiæ *Newtonianæ*. Idem valet de secunda repartitione.

§. 112. In repartitione tertia et quarta, ubi Exponentes de x semper crescunt per 2, convenienter huic circumstantiæ etiam assumptæ sunt series:

$$y = Ax + Bx \cdot \frac{xx-mm}{mm} + \text{etc.}$$

$$y = Ax^2 + Bx^2 \cdot \frac{xx-mm}{mm} + \text{etc.}$$

Quia cum his ad duplum proceditur effectum.

Hic pro casu, ubi m, n, p, q, r , etc. = 1, 2, 3, 4, 5 etc. ponitur, lex coefficientium non tam clare cognoscitur. Interea si ulli, qui occurrunt in quarta repartitione, et qui sunt

4				
6	15			
8	28	56		
10	45	120	210	
12	66	220	495	792
etc.				

quærantur in Tabula XXXVII, apparet, esse numeros figuratos sumptos per saltus; ac proinde iterum numeros Formulæ binomiæ *Newtonianæ*. Divisores: 12, 90, 560, 3150, 16632 sunt

12	=	3.	4.
90	=	6.	15.
560	=	10.	56.
3150	=	15.	210.
16632	=	21.	792.

Ac proinde producta numerorum Trigonalium 3, 6, 10, 15, 21, etc. et ultimorum coefficientium 4, 15, 56, 210, 792, etc.

§. 113. In tertia repartitione sunt coefficientes

2			
4	5		
6	14	14	
8	27	48	42
etc.			

Hi quidem non inveniuntur in Tabula immediate; sed facillime inde deduci possunt. Nam

1. Numeri Trigonaes sumpti per saltus: 6, 15, 28, etc. qui libet unitate minutus, exhibent hic columnam secundam 5, 14, 27, etc.

2. Tandem pro tertia columna est

14	=	20	-	6
48	=	56	-	8
etc.				

Ac proinde tertia columna continet differentias numerorum pyramidalium & purorum itidem sumptorum per saltus. Tertia columna continet differentias columnarum quartæ et secundæ, Tabulæ XXXVII, quæ itidem sunt ex formula binomia *Newtoni*. Sic v. g. est

$$(1-1)^8 = 1 - 8 + 28 - 56 + 70 - 56 + 28 - 8 + 1 \quad \left. \begin{array}{l} \hline - 1 + 8 - 28 + 56 \\ \hline 1 - 8 + 27 - 48 + 42. \end{array} \right\} \text{etc.}$$

Et ita porro

$$(1-1)^{10} = 1 - 10 + 45 - 120 + 210 - 252 + 210 - 10 + 1 \quad \left. \begin{array}{l} \hline - 1 + 10 - 45 + 120 - 210 \\ \hline 1 - 10 + 44 - 110 + 165 - 132 \end{array} \right\} \text{etc.}$$

Divisores 6, 30, 140, 630, etc. sunt producta ex numeris Trigonalibus 3, 6, 10, 15, etc, et ultimis coefficientibus 2, 5, 14, 42, etc.

X.

Tabula Dignitatum Serierum infinitarum.

§. 144. **U**bi computandum est cum seriebus infinitis, sæpe occurrunt casus, ubi series elevanda est ad Dignitates. Cumque hoc sit labor longinquus, commodum est, si res tota computata ob oculos habeatur. Hoc præferret Tabula XXXIX, respectu duarum serierum

Tab.
XXXIX

$$y = a + bx + cx^2 + dx^3 + ex^4 + \text{etc.}$$

$$y = x + ax^2 + bx^3 + cx^4 + dx^5 + \text{etc.}$$

Interea usus hujus Tabulæ ad hoc solum non restringitur, sed tendit ad omnes series, quæ facile mutari possunt in unam earum. Sic v. g. sit series

$$y = a + bz^2 + cz^4 + dz^6 + ez^8 + \text{etc.}$$

elevanda ad dignitates; poni potest

$$z^2 = x$$

et adhiberi poterit prima pagina Tabulæ.

§. 115. Pari ratione si detur

$$y = az + bz^3 + cz^5 + dz^7 + \text{etc.}$$

elevanda ad dignitates, ponitur itidem

$$z^2 = x$$

et habebitur

$$y : z = a + bx + cx^2 + dx^3 + \text{etc.}$$

Quæ est series primæ paginæ Tabulæ. Proprie id agendum, ut coefficientes quorumvis membrorum dignitatum statim excribi possint. Exponentes determinantur, posito iterum z pro x , nullo negotio.

§. 116. Sit series

$$y = z^2 + az^4 + bz^6 + cz^8 + \text{etc.}$$

Itidem ponitur

$$z^2 = x$$

et obrinetur

$$y = x + ax^2 + bx^3 + \text{etc.}$$

Series secundæ paginæ Tabulæ.

§. 117. Detur

$$y = z + az^3 + bz^5 + cz^7 + \text{etc.}$$

Ponitur rursus

$$z^2 = x$$

et inde habetur

$$y z = x + ax^2 + bx^3 + cx^4 + \text{etc.}$$

Quæ itidem est series paginæ secundæ Tabulæ.

§. 118. Sit

$$y = Ax + Bx^2 + Cx^3 + Dx^4 + \text{etc.}$$

Mat

$$y : A = x + \frac{B}{A} x^2 + \frac{C}{A} x^3 + \frac{D}{A} x^4 + \text{etc.}$$

$$= x + ax^2 + bx^3 + cx^4 + \text{etc.}$$

Et exscriptis dignitatibus, multiplicantur rursus secundum ordinem per A, A², A³, etc.

Hi jam generatim sunt casus magis usitati; et ex reductionibus hic adductis facile colligitur, in quantum hæc Tabula etiam respectu aliarum serierum adhiberi possit.

XI.

Tabula Dignitatum partium Decimalium;

ab 0,01 usque 1,00.

§. 119. **H**æc Tabula itidem usum habet amplissimum. In seriibus infinitis fere semper sumi debet quantitas variabilis minor unitate. Si proinde habeatur series

$$y = a + bx + cx^2 + dx^3 + \text{etc.}$$

cujus ope y pro quovis valore de x determinari debet; poni potest pro x secundum ordinem

$$0,01; 0,02; 0,03; 0,04; \text{etc.}$$

Et cum inveniatur tandem x, x², x³, x⁴, exacte, x⁵, x⁶, x⁷ . . . xⁿ autem: ad 8 loca decimalia in Tabula; absoluta est pars molestissima computationis; quia tum solum multiplicandum est, per coefficientem. Et ita computari possunt amplæ Tabulæ.

§. 120. Si vero y tantum sit inveniendum pro valore determinato de x, v. g. pro x = 0,34853 . . . computatur y pro

$$x = 0,34; x = 0,35; x = 0,36; x = 0,37, \text{ etc.}$$

Et tandem secundum informationem Tabulæ XXXVIII servire potest Interpolatio.

§. 121. Si considerentur numeri primæ columnæ ut numeri integri; numeri secundæ, tertię, et quartæ columnæ continent eorum Quadrata, Cubos, et Biquadrata exacte. In columna quinta desunt pro Quadrato-cubo duæ notæ ultimæ, et pro quavis potentia altiore magis duæ notæ. Ex inde discerni potest pro omni casu, in quantum acquiesci possit decimalibus expositis. Sic v. g. sit ex dato numero extrahenda radix quinta, sexta, septima . . . undecima, tere semper adhiberi potest hæc Tabula ad inveniendas priores duas notas radice. Refecandæ fere quot adjecto debito numero zerorum, tot notæ posteriores, quot loca deficiunt in Tabulæ columna ad hoc adhibenda; et sic videri potest, inter quales numeros incidunt notæ reliquæ. Sic v. g. ex 135 extrahenda sit radix septima, annectuntur 7 zeri; 135,000000. Jam in columna septima desunt 6 decimales. Ac proinde refecantur 6 zeri, et reliquæ notæ evolutæ in columna septima cadunt inter

$$x = 20 \quad x^7 = 1280 \dots$$

$$x = 21 \quad x^7 = 1801 \dots$$

ita ut tandem radix septima de 135 paulo major sit quam 2,0. Hoc itaque jam sufficit ad adhibendam formulam approximationis tertię repartitionis Tabulæ XXXIV, quæ offert valorem pro $n = \frac{1}{7}$.

Tabula
XXXIV

$$\sqrt[7]{(a+p)} = \frac{7a+4p}{7a+3p} \cdot \sqrt[7]{a + \frac{4}{343} \left(\frac{p}{a}\right)^7} \sqrt[7]{a + \text{etc.}}$$

Cum jam hoc in casu sit

$$135 = 128 + 7 = a + p$$

$$a = 128$$

$$p = 7$$

$$\sqrt[7]{a} = 2$$

erit radix

$$\sqrt[7]{135} = \frac{264}{131} + \frac{1}{16.128.128} + \text{etc.} = 2,0152676 \dots$$

Apparet, eam per hanc primam approximationem jam multum accedere ad accuratorem.

§. 122. Hæc Tabula porro exhibet dignitates numerorum ab 1 usque 10 cum decimalibus intercentibus. Sic v. g. sint inveniendæ dignitates de 3,1; invenitur in Tabula debita cum annotatione partium decimalium

$3, 1^1$	=	$3, 1$
$3, 1^2$	=	$9, 61$
$3, 1^3$	=	$27, 791$
$3, 1^4$	=	$92, 3521$
$3, 1^5$	=	$286, 29211$
$3, 1^6$	=	$887, 50 \dots$
$3, 1^7$	=	$2751, 3 \dots \dots$

Loca decimalia in Tabula omiffa, hic punctis annotata funt; et ita modus, ut decimales ab integris distinguuntur, facile conspiciuntur.

Tandem hanc Tabulam ad solutionem *Æquationum* secundum instructionem Tabulæ XXVII optimi usus esse, liquet sine admonitione mea. Sic etiam pro numeris 2, 3, 5 immediate; et pro 4, 6, 8, 10, 12 etc. mediate Tabula VII, VIII, et IX adhiberi possunt (§. 54.)

§. 123. Tandem Tabula XLI continet Radices quadraticas numerorum ab 1 usque 100 in 7 decimalibus. Et ex his radices quadraticæ numerorum 4, 9, 16 etc. vicibus majorum facile inveniuntur; et ex eodem fundamento Radices quadraticæ de

$$\sqrt{\frac{1}{2}}, \sqrt{\frac{1}{3}}, \sqrt{\frac{1}{4}}, \sqrt{\frac{1}{5}} \text{ etc. } \dots \sqrt{\frac{1}{100}}$$

et cum his etiam

$$\sqrt{\frac{2}{3}}, \sqrt{\frac{3}{4}}, \sqrt{\frac{4}{5}}, \sqrt{\frac{5}{6}}, \sqrt{\frac{6}{7}} \text{ etc.}$$

Quem in finem serviunt duæ primæ formulæ Tabulæ XLIII.

Tabula XLII exhibet radices quadraticas

$$\sqrt{2}, \sqrt{3}, \sqrt{4}, \dots \sqrt{12}$$

Tabula
XLIII
Tabula
XLII

et cum his etiam

$$\sqrt{\frac{1}{2}}, \sqrt{\frac{1}{3}}, \sqrt{\frac{1}{4}} \dots \sqrt{\frac{1}{12}}$$

in talibus fractionibus, quarum quævis posterior est accuratior, et accuratio cujusque ope differentia a proxima subsequente determinari potest.

Reliquæ quatuor formulæ Tabulæ XLIII per se sunt claræ; et respectu usus sui magnam habent connexionem cum Tabulis XLI, XLII, XXXIV, et XXXV.

I. H. LAMBERT
SUPPLEMENTA
TABULARUM
LOGARITHMICARUM
ET
TRIGONOMETRICARUM.

TAB. I.
NUMERORUM
AB UNITATE AD 102000
PROGREDIENTIUM
PER 2, 3, 5 NON DIVISIBILIUM
DIVISORES
SI QUI DANTUR
MINIMI.

TAB. I. DIVISORES

α	0	3..	6..	9..	12..	15..	18..	21..	24..	27..
1	—	7	—	17	—	19	—	11	7 ⁴	37
7	—	—	—	—	17	11	13	7 ^p	29	—
11	—	—	13	—	7	—	—	—	—	—
13	—	—	—	11	—	17	7 ⁿ	—	19	—
17	—	—	—	7	—	37	23	29	—	11g
19	—	11	—	—	23	7 ^m	17	13	41	—
23	—	17	7	13	—	—	—	11	—	7
29	—	7	17	—	—	11	31	—	7	—
31	—	—	—	7 ⁱ	—	—	—	—	11g	—
37	—	—	7 ^g	—	—	29	11	—	—	7 ^b
41	—	11	—	—	17	23	7	—	—	—
43	—	7 ³	—	23	11	—	19	—	7	13
47	—	—	—	—	29	7 ^g	—	19	—	41
49	7	—	11	13	—	—	43	7	31	—
53	—	—	—	—	7	—	17	—	11	—
59	—	—	—	7	—	—	11g	17	—	31
61	—	19	—	31	13	7	—	—	23	11
67	—	—	23	—	7	—	—	11	—	—
71	—	7	11	—	31	—	—	13	7	17
73	—	—	—	7	19	11g	—	41	—	47
77	7	13	—	—	—	19	—	7	—	—
79	—	—	7	11	—	—	—	—	37	7
83	—	—	—	—	—	—	7	37	13	11k
89	—	—	13	23	—	7	—	11	19	—
91	7	17	—	—	—	37	31	7	47	—
97	—	—	17	—	—	—	7	13 ⁵	11	—

β	1..	4..	7..	10..	13..	16..	19..	22..	25..	28..
1	—	—	—	7 ^f	—	—	—	31	41	—
3	—	13	19	17	—	7	11	—	—	—
7	—	11	7	19	—	—	—	—	23	7
9	—	—	—	—	7 ^f	—	23	47	13	53
13	—	7	23	—	13	—	—	—	7	29
19	7	—	—	—	—	—	19	7	11	—
21	11	—	7	—	—	—	17	—	—	7 ^g
27	—	7	—	13	—	—	41	17	7 ⁱ	11
31	—	—	17	—	11 ³	7	—	23	—	19
33	7	—	—	—	31	23	—	7 ^f	17	—
37	—	19	11	17	7	—	13	—	43	—
39	—	—	—	—	13	11	7	—	—	17
43	11	—	—	7	17	31	29	—	—	—
49	—	—	7	—	19	17	—	13	—	7 ^f

NUMERORUM.

3

γ	2..	5..	8..	11..	14..	17..	20..	23..	26..	29..
3	7	—	11	—	23	13	—	7 ^q	19	—
9	11	—	—	—	—	—	7 ^o	—	—	—
11	—	7	—	11	17	29	—	—	7	41
17	7	11	19	—	13	17	—	7	—	—
21	13	—	—	19	7 ^l	—	43	11	—	23
23	—	—	—	—	—	—	7 ^b	23	43	37
27	—	17	—	7 ^k	—	11	—	13	37	—
29	—	23	—	—	—	7 ^g	—	17	11	29
33	—	13	7 ^b	11	—	—	19	—	—	7
39	—	7 ^f	—	17	—	37	—	—	7 ^g	—
41	—	—	29	7	11	—	13	—	19	17
47	13	—	7 ^f	31	—	—	23	—	—	7
51	—	19	23	—	—	17	7	—	11	13
53	11	7	—	—	—	—	—	13	7	—
57	—	—	—	13	31	7	11 ^b	—	—	—
59	7	13	—	19	—	—	29	7	—	11
63	—	—	—	—	7 ^f	41	—	17	—	—
69	—	—	11	7	13	29	—	23	17	—
71	—	—	13	—	—	7 ^f	19	—	—	—
77	—	—	—	11	7	—	31	—	—	13
81	—	7	—	—	—	13	—	—	7	11
83	—	11	—	7 ^g	—	—	—	—	—	19
87	7	—	—	—	—	—	—	7 ^f	—	29
89	17	19	7	29	—	—	—	—	—	7 ^t
93	—	—	19	—	—	11	7 ^g	—	—	41
99	13	—	29	11	—	7	—	—	—	—

β	1..	4..	7..	10..	13..	16..	19..	22..	25..	28..
51	—	11	—	—	7	13	—	—	—	—
57	—	—	—	7	23	—	19	37	—	—
61	7	—	—	—	—	11	37	7 ^b	13	—
63	—	—	7	—	29	—	13	31	11	7
67	—	—	13	11	—	—	7	—	17	47
69	13	7	—	—	37	—	11	—	7	19
73	—	11	—	29	—	7	—	—	31	13 ^b
79	—	—	19	13	7	23	—	43	—	—
81	—	13	11	23	—	41	7	—	29	43
87	11	—	—	—	19	7	—	—	13	—
91	—	—	7	—	13	19	11	29	—	7 ^s
93	—	17	13	—	7	—	—	—	—	11
97	—	7	—	—	11	—	—	—	7 ^r	—
99	—	—	17	7	—	—	—	11 ⁱ	23	13

A ii

3000

TAB. I. DIVISORES

a.	30..	53..	36..	39..	42..	45..	48..	51..	54..	57..
1	—	—	13	47	—	7	—	—	11	—
7	31	—	—	—	7	—	11i	—	—	13
11	—	7f	23	—	—	13	17	19	7	—
13	23	—	—	7g	11	—	—	—	—	29
17	7	31	—	—	—	—	—	7b	—	—
19	—	—	7f	—	—	—	61	—	—	7i
23	—	—	—	—	41	—	7g	47	11b	59
29	13	—	19	—	—	7	11	23	61	17
31	7	—	—	—	—	23	—	7	—	11
37	—	47	—	31	19	13	7	11	—	—
41	—	13	11	7	—	19	47	53	—	—
43	17	—	—	—	—	7f	29	37	—	—
47	11	—	7	—	31	—	37	—	13	7
49	—	17	41	11	7	—	13	19	—	—
53	43	7	13	59	—	29	23	—	7i	11
59	7i	—	—	37	—	47	43	7f	53	13
61	—	—	7	17	—	—	—	13	43	7
67	—	7g	19	—	17	—	31	—	7f	73
71	37	—	—	11i	—	7	—	—	—	29
73	7	—	—	29	—	17	11	7	13	23
77	17	11	—	41	7g	23	—	31	—	53
79	—	31	13	23	11	19	7b	—	—	—
83	—	17	29	7	—	—	19	71	—	—
89	—	—	7b	—	—	13	—	—	11	7
91	11	—	—	13	7	—	67	29	17i	—
97	19	43	—	7	—	—	59	—	23	11b

b.	31..	34..	37..	40..	43..	46..	49..	52..	55..	58..
1	7	19	—	—	11b	43	13t	7	—	—
3	29	41	7k	—	13	—	—	11p	—	7
7	13	—	11	—	59	17	7	41	—	—
9	—	7	—	19	31	11	—	—	7	37
13	11	—	47	—	19	7	17	13	37	—
19	—	13	—	—	7	31	—	17	—	11k
21	—	11	61	—	29	—	7i	23	—	—
27	53	23	—	—	—	7	13	—	—	—
31	31	47	7g	29	61	11	—	—	—	7b
33	13	—	—	37	7	41	—	—	11	19
37	—	7	37	11	—	—	—	—	7f	13
39	43	19	—	7	—	—	11	13m	29	—
43	7	11	19	13	43	—	—	7D	23	—
49	47	—	23	—	—	—	7B	29	31	—

NUMERORUM.

α	32..	35..	38..	41..	44..	47..	50..	53..	56..	59..
3	—	31	—	11	7 ^b	—	—	—	13	—
9	—	11 ^l	13	7	—	17	—	—	71	19
11	13 ⁱ	—	37	—	11	7	—	47	31	23
17	—	—	11	23	7	53	29	13	41	61
21	—	7	—	13	—	—	—	17	7 ^f	31
23	11	13	—	7 ⁱ	—	—	—	—	—	—
27	7	—	43	—	19	29	11	7	17	—
29	—	—	7	—	43	—	47	73	13	7 ^f ²
33	53	—	—	—	11 ^g	—	7	—	43	17
39	41	—	11	—	23	7	—	19	—	—
41	7	—	23	41	—	11	71	7 ^E	—	13
47	17	—	—	11 ^g	—	47	7 ^C	—	—	19
51	—	53	—	7	—	—	—	—	—	11
53	—	11 ^b	—	—	61	7 ^A	31	53	—	—
57	—	—	7 ⁱ	—	—	67	13	11	—	7 ^k
59	—	—	17	—	7 ^g	—	—	23	—	59
63	13	7	—	23	—	11	61	31	7	67
69	7	43	53	11	41	19	37	7 ^g	—	47
71	—	—	7 ^x	43	17	13	11	41	53	7
77	29	7 ^w	—	—	11 ⁿ	17	—	19	7	43
81	17	—	—	37	—	7	—	—	13 ⁱ	—
83	7 ^u	—	11	47	—	—	13 ^b	7	—	31
87	19	17	13 ^k	53	7	—	—	—	11 ^q	—
89	11 ^g	37	—	59	67	—	7	17	—	53
93	37	—	17	7	—	—	11	—	—	13
99	—	59	7	13 ^b	11	—	—	—	41	7

β 88	31..	34..	37..	40..	43..	46..	49..	52..	55..	58..
51	23	7 ^b	11 ^m	—	19	—	—	59	7 ^g	—
57	7 ^f	—	13 ^b	—	—	—	—	7	—	—
61	29	—	—	31	7 ^z	59	11 ^o	—	67	—
63	—	—	53	17	—	—	7	19	—	11 ^g
67	—	—	—	7 ^y	11	13	—	23	19	—
69	—	—	—	13 ^o	17	7 ^k	—	11	—	—
73	19	23	7 ^f	—	—	—	—	—	—	7 ^z
79	11 ^b	7 ^v	—	—	29	—	13	—	7	—
81	—	59	19	7 ^f	13	31	17	—	—	—
87	—	11	7	61	41	43	—	17	37	7 ^d
91	—	—	17	—	—	—	7 ^k	11 ^g	—	43
93	31	7	—	—	23	13 ⁱ	—	67	7 ^b	7 ^z
97	23	13	—	17	—	7 ^f	19	—	29	—
99	7	—	29	—	53	37	—	7	11	17

α	60	63	66	69	72	75	78	81	84	87
1	17	—	7 ^k	67	19	13	29	—	31	7 ^f
7	—	7 ^b	—	—	—	—	37	11 ^u	7	—
11	—	—	11	—	—	7 ^l	73	—	13	31
13	7	59	17	31	—	11	13	7 ⁱ	47	—
17	11	—	13	—	7	—	—	—	19	23
19	13	71	—	11 ^b	—	73	7	23	—	—
23	19	—	37	7 ^k	31	—	—	—	—	11 ^g
29	—	—	7	13 ^o	29	—	—	11	—	7 ^l
31	37	13	19	29	7	17	41	47	—	—
37	—	—	—	7	—	—	17	79	11 ^g	—
41	7	17	29	11	13	—	—	7	23	—
43	—	—	7 ^g	53	—	19	11 ^k	17	—	7
47	—	11	17 ^k	—	—	—	7 ⁱ	—	—	—
49	23	7	61	—	11	—	47	29	7 ^b	13
53	—	—	—	17	—	7 ^g	—	31	79	—
59	73	—	—	—	7 ^b	—	29	41	11	19
61	11 ⁱ	—	—	—	53	—	7	—	—	—
67	—	—	59	—	13 ^p	7 ^k	—	—	—	11
71	13	23	7	—	11	67	17	—	43	7 ^R
73	—	—	—	19	7	—	—	11	37	31
77	59	7	11	—	19	—	—	13 ^b	7 ^Q	67
79	—	—	—	7	29	11 ^g	—	—	61	—
83	7 ^f	13	41	—	—	—	—	7 ^P	17	—
89	—	—	—	29	37	—	7 ^k	19	13	11 ^b
91	—	7 ^f	—	—	23	—	13	—	7	59
97	7 ^g	—	37	—	—	71	53	7	29	19
β	61	64	67	70	73	76	79	82	85	88
1	—	37	—	—	7 ^L	11	—	59	—	13
3	17	19	—	47	67	—	7	13	11	—
7	31	43	19	7 ^{fg}	—	—	—	29	47	—
9	41	13 ^b	—	43	—	7	11	—	67	23
13	—	11 ^r	7 ^l	—	71	23	41	43	—	7
19	29	7 ^H	—	—	13	19	—	—	7	—
21	—	—	11 ^g	7 ^b	—	—	89	—	—	—
27	11	—	7 ^m	—	17	29	—	19	—	7 ^g
31	—	59	53	79	—	13	7 ^f	—	19	—
33	—	7	—	13	—	17	—	—	7 ^k	11 ^w
37	17 ⁱ	41	—	31	11 ^k	7	—	—	—	—
39	7	47	23	—	41	—	17	7 ^f	—	—
43	—	17	11	—	7	—	13 ^q	—	—	37
49	11 ^g	—	17	7 ⁱ	—	—	—	73	83	—

NUMERORUM.

7

γ	62	65	68	71	74	77	80	83	86	89
3	—	7	—	—	11	—	53	19 ^k	7	29
9	7	23	11	—	31	13	—	7	—	59
11	—	17	7 ^K	13	—	11	—	—	79	7 ⁱ
17	—	7 ⁱ	17	11	—	—	—	—	7	37
21	—	—	19	—	41	7	13	53	37	11
23	7 ^G	11	—	17	13	—	71	7 ^l	—	—
27	13	61	—	—	7	—	23	11	—	79
29	—	—	—	—	17 ⁱ	59	7 ^m	—	—	—
33	23	47	—	7	—	11 ⁱ	29	13	89	—
39	17	13	7	11 ^s	43	71	—	31	53	7
41	79	31	—	37	7	—	11 ^b	19	—	—
47	—	—	41	7	11	61	13	17	—	23
51	7 ⁱ	—	13 ^b	—	—	23	83	7	41	—
53	13 ⁿ	—	7 ^f	23	29	—	—	—	17	7
57	—	79	—	17	—	—	7	61	11	13 ^r
59	11	7	19 ³	—	—	—	—	13	7	17 ^m
63	—	—	—	13 ⁱ	17	7	11	—	—	—
69	—	—	—	67	7 ^f	17	—	—	—	—
71	—	—	—	71	31	19	7	11	13 ^k	—
77	—	—	13 ^k	—	—	7 ^f	41	—	—	47
81	11	—	7	43	—	—	—	17 ^l	—	7
83	61	29	—	11	7	31	43	59	83	19
87	—	7	71	—	—	13	—	—	—	7 ^b
89	19	11	83	7 ^g	—	—	—	—	—	89
93	7 ^l	19	61	—	59	—	—	7 ^f	—	17 ^k
99	—	—	—	23	—	11	78	37	—	—

β	61	64	67	70	73	76	79	82	85	88
51	—	—	43	11	—	7	—	37	17	53
57	47	11	29	—	7	13 ⁱ	73	23	43	17
61	61	7 ^g	—	23	17	47	19	11	7	—
63	—	23	—	7	37	79	—	—	—	—
67	7	29	67	37	53	11 ^b	31	7	13	—
69	31	—	7	—	—	—	13	—	11 ⁱ	7 ^s
73	—	—	13	11	73	—	7 ^b	—	—	19
79	37	11 ⁱ	—	—	47	7	79	17	23	13
81	7	—	—	73	11 ^t	—	23	—	78 ²	83
87	23	13	11	19	83	—	7 ^o	—	31	—
91	41	—	—	7	19	—	61	—	11 ^v	17
93	11	43	—	41	—	7 ^N	—	—	13	—
97	—	73	7	47	13	43	11	—	—	7 ^m
99	—	67	13	31	7 ^M	—	19	43	—	11

9000

α	90	93	96	99	102	105	108	111	114	117
1	—	7 ^f	—	—	101	—	7	17	13	—
7	—	41	13	—	59	7 ⁱ	101	29	11 ^b	23
11	—	—	7	11 ^b	—	23	19	41	—	7 ²
13	—	67	—	23	7	—	11	—	101	13 ^b
17	71	7 ^{f2}	59	47	17	13	29	—	7 ²	—
19	29	—	—	7 ^g	11	67	31	—	19	—
23	7	—	—	—	—	17	79	7 ²	—	19
29	—	19	—	—	53	—	7 ^{2g}	31	11	37
31	11	7 ^m	—	—	13	—	—	—	7 ^k	—
37	7	—	23	19	29	41	—	7 ⁿ	—	11 ²
41	—	—	51	—	7 ^{2j}	83	37	13	17	59
43	—	—	—	61	—	13	7	11	—	—
47	83	13	11	7 ⁱ	—	53	—	71	—	17
49	—	—	—	—	37	7 ^f	19	—	107	31
53	11	47	7 ^k	37	—	61	—	19 ²	13	7 ^k
59	—	7 ^l	13	23	—	—	—	—	7	11
61	13 ^b	11 ^k	—	7	31	59	—	—	73	19
67	—	17 ⁱ	7	—	—	—	—	13	—	7 ^o
71	47	—	19	13 ²	—	11 ^m	7	—	—	79
73	43	7 ^g	17	—	—	97	83	—	7 ^f	61
77	29	—	—	11	43	7	73	—	23	—
79	7	83	—	17	19	71	11 ^k	7	13	—
83	31	11	23	67	7 ^g	19	—	53	—	—
89	61	41	—	7	—	—	—	67	—	—
91	—	—	11	97	41	7 ^h	—	19 ⁱ	—	13
97	11	—	—	13	7	—	17	—	—	47

β	91	94	97	100	103	106	109	112	115	118
1	19	7 ^b	89	73	—	—	11	23	7 ^m	—
3	—	—	31	7	—	23	—	17	—	11 ^l
7	7	23	17	—	11	—	13	7	37	—
9	—	97	7 ⁱ	—	13 ²	103	—	11	17	7 ²
13	13	—	11	17 ⁱ	—	—	7	—	29	—
19	11	—	—	43	17	7 ⁿ	61	13	—	53
21	7	—	—	11	—	13 ⁱ	67	7 ²	41	—
27	—	11	71	37	23	—	7 ²	103	—	—
31	23	—	37	7	—	—	17	11	13	—
33	—	—	—	79	—	7 ³	13 ^l	47	19	—
37	—	—	7 ^g	—	—	11	—	17	83	7 ⁱ
39	13 ⁱ	—	—	—	7 ²	—	—	—	11	—
43	41	7 ⁱ	—	11 ^a	—	29	31	—	7 ^b	13
49	7	11	—	13	79	23	—	7	—	17 ^a

NUMERORUM.

9

γ	02	05	08	101	104	107	110	113	116	119
3	—	13 ^b	—	—	101	7 ^f	—	09	41	—
9	—	37	17	11	7	—	101	43	13 ⁱ	—
11	61	—	—	—	29	—	7 ^{f2}	—	17	43
17	13	31	—	67	11	7	23	—	—	17
21	—	—	7 ^k	29	17	71	103	—	—	7 ^g
23	23	89	11 ⁱ	53	7	—	73	13 ^a	59	—
27	—	7	31	13 ⁱ	—	17	—	47	7 ^f	—
29	11	13	—	7	—	—	41	—	29	79
33	7	—	—	—	—	—	11 ^b	7	—	—
39	—	—	—	—	11 ^g	—	7 ⁱ	17 ^k	103	—
41	—	7 ^l	13	—	53	23	61	11	7	—
47	7	—	43	73	31	11	—	7	19	13
51	11 ^l	—	—	—	7	13	43	—	61	17 ⁱ
53	19	41	59	11 ^g	—	—	7	—	43	—
57	—	19	—	7	—	31	—	41	—	11
59	47	11 ^x	—	—	—	7 ^l	—	37	89	—
63	59	73	7	—	—	47	13 ^k	11	107	7
69	13 ^k	7	71	—	19 ^a	11 ^c	—	—	7	—
71	73	17	—	7	37	—	—	83	11	—
77	—	61	7 ^b	—	—	13	11 ⁱ	31	—	7 ^l
81	—	11 ^g	41	—	47	—	7	19	—	—
83	—	7 ⁿ	—	17	11	41	—	—	7	23
87	37	—	—	61	—	7 ^k	—	59	13 ^l	—
89	7	43	11 ^l	23	17	—	13	7	—	19
93	—	53	13	—	7	43	—	—	11	67
99	17	29	19	7 ^m	—	—	11	—	—	13 ²

β	91	94	97	100	103	106	109	112	115	118
51	—	13	7 ²	19 ^k	11	—	47	—	—	7
57	—	7 ²	11	89	—	—	—	—	—	71
61	—	—	43	—	13	7	97	—	11	29
63	7 ^{2f}	—	13	29	43	—	19	7	31	—
67	89	—	—	—	7	—	11	19	43	—
69	53	17	—	—	—	47	7	59	23	11 ^g
73	—	—	29	7	11 ^k	13	—	—	71	31
79	67	—	7 ^f	—	97	59	—	—	—	7
81	—	19	—	17	7	11	79	29	37	109
87	—	53	—	7 ^f	13 ^b	—	—	—	—	—
91	7 ^g	—	—	—	—	—	29	7	67	11 ^k
93	29	11	7	—	19	17 ²	—	23	—	7
97	17	—	97	23	37	19	7	11 ^g	—	—
99	—	7 ^k	41	—	—	13	17	—	7	73

B

12000

TAB. I. DIVISORES

α	120	123	126	129	132	135	138	141	144	147
1	11	—	—	7 ⁱ	43	23	37	59	—	61
7	—	31	7	—	47	13	—	—	—	7 ^f
11	—	13	—	—	11	59	7	103	—	47
13	41	7	—	37	73	—	19	11	7 ^l	—
17	61	109	11 ^m	—	—	7	41	19	13	—
19	7 ^b	97	—	—	—	11	13	7	—	41
23	11	—	13	—	7	—	23	29	—	—
29	23	—	73	7	—	83	—	71	47	11 ^g
31	53	11 ⁱ	17	67	101	7	—	13	—	—
37	—	13 ²	—	17	7 ^m	—	101	67	—	—
41	—	7 ^o	—	—	—	11	—	79	7	—
43	—	—	47	7 ^p	17 ⁱ	29	109	—	11 ^g	23
47	7	—	—	11 ²	13	19 ^k	61	7 ^p	—	—
49	—	53	7 ^g	23	—	17	11	—	—	7 ⁱ
53	17	11	—	—	29	—	7	—	97	—
59	31	17	—	—	—	7 ^g	—	—	19	—
61	7	47	11	13	89	71	83	7 ^{2b}	—	29
67	11	83	53	—	—	—	7 ²	31	17 ^k	—
71	—	89	—	7 ^b	23	41	11 ^g	37	29	—
73	—	—	19 ^k	—	13	7 ²	—	—	41	11 ^b
77	13	—	7	19	11 ^b	—	—	—	31	7
79	47	—	31	—	7 ²	—	—	11	—	—
83	43	7 ^l	11	—	37	17 ²	—	13	7	—
89	7 ^f	13	—	31	97	107	17 ⁱ	7	—	23
91	107	—	7 ⁱ	11	—	—	29	23	43	7
97	—	7 ^{2f}	—	41	—	—	13	—	7 ⁱ	—

β	121	124	127	130	133	136	139	142	145	148
1	—	—	13	—	47	7 ^l	—	11	17	19 ²
3	7 ^{2g}	79	—	—	53	61	—	7	—	13
7	—	19	97	—	7	11	—	—	89	13 ^b
9	—	—	71	—	—	31	7	13	11	59
13	—	—	—	7 ^{fg}	—	—	—	61	23	—
19	—	11	7 ^k	47	19	—	31	59	—	7 ^l
21	17 ^k	—	—	29	7 ^f	53	—	—	13	—
27	67	17 ²	11 ^g	7	—	—	19	41	73	—
31	7	31	29	83	—	43	—	7 ⁱ	11	—
33	11	—	7 ^b	—	67	—	—	43	—	7 ^g
37	53	—	47	—	—	13	7 ^f	23	—	37
39	61	7	—	13 ^b	—	23	53	29	7 ^m	11 ⁱ
43	—	23	—	—	11	7	73	—	—	—
49	—	59	11 ⁱ	—	7	—	13 ^l	—	—	31

NUMERORUM.

II

γ	122	125	128	131	134	137	140	143	146	149
3	—	—	7 ^m	—	13	71	11 ⁱ	—	17	7
9	29	7	—	—	11 ^k	—	—	41	7	17
11	—	—	23	7	—	—	—	11	19	13 ^m
17	19	—	7	13	—	11 ^l	107	103	47	7
21	11 ²	19	—	—	—	—	7	—	—	43
23	17	7	—	11	31	—	37	—	7	—
27	—	—	101	—	29	7 ⁿ	13 ²	—	—	11 ^k
29	7	11 ^b	—	19	13	—	—	7 ^k	—	—
33	13	83	41	23	7 ⁱ	31	—	11	—	109
39	—	—	37	7	89	11	101	13	—	—
41	—	—	—	17	—	7 ^g	19	—	11 ⁴	67
47	37	—	29	—	7 ^b	59	11	—	97	—
51	—	7 ^f	71	—	—	—	—	113	7 ^g	—
53	—	—	—	7	11	17	13 ^k	31	—	19
57	7 ^b	29	13 ^k	59	—	—	—	7 ²	—	—
59	13 ^k	19	7 ^f	—	43	—	17	83	107	7
63	—	17	19	—	—	—	7 ³	53	11 ^m	13
69	—	—	17	13	—	7 ²	11	—	—	—
71	7	13	61	—	19	47	—	7	17	11
77	—	—	79	—	—	23	7	11	13	17
81	—	23	11	7 ²	13 ^b	—	—	73	53	71
83	71	—	13	—	97	7 ^f	—	19	—	—
87	11	41	7 ²	—	—	17	—	—	19	7
89	—	—	—	11 ²	7 ^o	—	73	—	37	13
93	19	7 ²	—	79	103	13	17	37	7	11 ^l
99	7 ²	43	—	67	—	—	23	7 ²	—	53

β	121	124	127	130	133	136	139	142	145	148
51	29	—	41	31	13 ²	11 ^b	7	—	—	—
57	—	—	—	11	19 ²	7	17	53	—	83
61	—	17	7	37	31	19	23	13	—	7 ^f
63	—	11 ²	—	—	7 ^k	13	—	17	—	89
67	23 ³	7 ^g	17	73	—	79	—	11	7	—
69	43	37	113	7	29	—	61	19	17	—
73	7 ⁿ	—	53	17	43	11 ²	89	7	13 ⁱ	107
79	19	—	13	11 ^l	17	—	7	109	61	—
81	13	7	—	103	—	—	—	11 ^m	—	7
87	7	—	19	23	11	—	—	71	7 ^g	29
91	73	—	—	13 ⁱ	7	—	—	17	31	—
93	89	13 ^m	11	—	59	—	—	7	—	53
97	—	—	67	7	—	—	—	—	17 ^l	11
99	11	29	—	—	—	7 ⁱ	—	79	13	47

B ii

15CCO

12

TAB. I. DIVISORES

α	150	153	156	159	162	165	168	171	174	177
1	7	11 ^g	—	—	17	29	53	7 ²	—	31
7	43	—	—	—	19	17	7 ³	—	13 ²	—
11	17	61	67	7	13 ^l	11 ⁱ	—	71	23	89
13	—	—	13	—	31	7 ²	17 ^k	109	11	—
17	—	17 ²	7 ^k	11	—	83	67	—	—	7
19	23	—	—	—	7 ²	—	11 ²	17 ⁱ	—	13 ^l
23	83	7 ^f	17	—	—	13 ^m	—	—	7 ⁱ	37
29	7 ⁱ	—	—	17	—	—	—	7	29	—
31	—	—	7 ^f	89	—	61	—	37	—	7 ^b
37	11	7 ²	19	—	13	23	113	—	7 ^q	—
41	13 ²	23 ²	—	19	109	7 ^b	11	61	107	113
43	7 ²	67	—	107	37	71	—	7 ^m	—	11
47	41	103	—	37	7 ^f	—	17	13	73	—
49	101	—	—	41	—	13 ⁱ	7 ^l	11	—	—
53	—	13	11	7 ^p	—	—	19	17	31	41
59	11 ⁿ	—	7	—	71	29	23	—	13 ^b	7 ^p
61	—	—	—	11	7 ^k	—	13	131	19	109
67	13 ⁱ	11 ²	—	7	—	—	101	—	—	109
71	7	19	—	—	53	73	—	7 ^f	—	13
73	—	—	7	—	—	—	47	13	101	7
77	—	—	61	13	41	11 ²	7	89	—	29
79	17	78 ⁱ	—	19 ^l	73	59	—	41	7 ^f	23
83	—	—	—	11	19	7 ^k	—	—	—	—
89	79	11	29	59	7 ^g	53	—	—	—	—
91	—	—	13 ^b	—	11	47	7 ⁱ	—	—	—
97	31	89	11	17	43	7	61	29	—	13 ⁿ

β	151	154	157	160	163	166	169	172	175	178
1	—	—	7	—	—	13	—	103	11 ⁿ	7
3	11	73	41	13	7 ^b	—	—	—	23	19
7	—	7 ^m	113	—	23	—	11 ^l	—	7 ^o	—
9	29 ^b	19	23	7	47	17	37	—	—	11
13	7 ^b	—	19	67	11	37	13	7	83	47
19	13	17	11	83	—	—	7	67	—	103
21	—	7	79	37	19	11	—	17	7	71
27	7	—	—	11 ^m	29	13	—	7 ^k	17	—
31	—	13	—	17 ^k	7	—	—	—	47	11
33	37	11 ^k	—	—	—	—	7 ^o	19	89	17
37	—	43	—	7 ^l	17 ^m	127	—	11	13 ⁱ	—
39	—	—	—	43	—	7	13	—	—	—
43	19	—	7 ^g	61	59	11 ^b	—	43	53	7
49	—	7	—	11	—	—	17	47	7 ^k	13

NUMERORUM.

13

γ	152	155	158	161	164	167	170	173	176	179
3	23	37	—	—	47	—	7 ²	11 ⁱ	29	—
9	67	13	—	89	61	7 ^{2f}	73	19	—	—
11	7 ⁰	—	97	—	—	17	—	7	11	—
17	—	59	—	71	—	73	7 ^{fg}	—	79	19 ^k
21	31	11 ^b	13	7 ⁱ	—	23	—	—	67	—
23	13	19 ²	—	23	11	7	29	17	—	—
27	—	—	7 ^{2b}	—	—	43	—	—	—	7 ^g
29	97	53	11	127	7	—	—	13 ^m	17 ²	—
33	—	7 ²	71	13 ^b	—	29	—	—	7 ^f	79
39	7 ²	41	47	—	17	19	11	7	31	—
41	—	—	7 ^m	—	41	—	—	—	13 ^k	7 ^f
47	79	7	13 ^k	67	—	—	—	11 ⁱ	7	131
51	101	—	11 ²	31	—	7	17 ²	—	19	29
53	7	103	83	29	—	11	—	7 ⁿ	127	13
57	11 ⁱ	47	101	107	7	13	37	17	—	—
59	—	—	—	11 ^g	109	—	7	—	—	—
63	—	79	29	7	101	—	113	97	17	11 ^k
69	—	—	7	19 ^k	43	41	13 ²	11	—	7 ^b
71	—	23	59	103	7 ^g	31	43	29	41	—
77	—	37	—	7	—	19	—	—	11	—
81	7 ⁿ	—	—	11	—	97	19 ^l	7 ^g	—	—
83	17 ^l	—	7	—	53	13	11	—	—	7 ²
87	—	11 ^g	—	—	—	—	7	—	23	—
89	—	7 ^b	—	—	11	103	23	—	7 ²ⁱ	—
93	41	31	23	—	—	7	—	—	13	19
99	—	19	13	97	7	107	—	127	11	41

β	151	154	157	160	163	166	169	172	175	198
51	109	—	19	7	83	—	11 ^k	13	—	—
57	23	13 ^l	7	—	11	—	31	—	97	7
61	—	—	—	—	—	—	7	41	17	53
63	59	7 ^q	11	—	—	19	—	61	7 ^g	—
67	29	—	—	—	13	7	19 ²	31	11	17
69	7 ^f	31	13	—	—	79	71	7	—	107
73	—	—	—	—	7	—	11	23	—	61
79	43	23	31	7	11	13	—	37	—	19
81	17 ⁱ	113	43	13	—	7	—	11	—	—
87	—	17	—	—	7	11 ⁿ	—	59	43	31
91	11	7	—	—	37	—	13	—	7 ²	—
93	—	—	17	7 ²	13 ²	—	—	—	73	29
97	7 ^g	—	—	—	19	59	23	7 ²	—	11
99	—	11	7 ⁿ	17	23 ²	—	89	—	—	7

18000

TAB. I. DIVISORES

α	180	183	186	189	192	195	198	201	204	207
1	47	—	11 ⁱ	41	7 ^g	—	—	—	23	127
7	11	—	23	7 ⁿ	—	—	29	—	—	—
11	7 ^m	—	37	—	—	109	11	7 ^g ²	—	139
13	—	—	7	—	—	13 ⁱ	—	—	137	7 ^f
17	43	13	—	—	11	29	7 ⁱ	—	17	—
19	37	7	43	—	—	13 ⁱ	—	11 ^m	7	—
23	67	73	11	127	47	7	43	—	13	17 ^k
29	11 ²	—	13	23	7 ^o	59	79	—	31	19
31	13 ⁱ	23	31	11	—	—	7	41	—	—
37	17	11	—	29	—	7	83	13	107	89
41	—	—	7	13 ^m	71	—	—	11	—	7
43	—	13 ^b	103	19	7	—	—	—	—	—
47	—	7	29	—	19	11	89	—	7 ^k	—
49	—	59	17	7	—	113	23	—	11 ² ^g	—
53	7	—	23	11	13	—	—	7	113	—
59	—	11	47	—	—	—	7	19	41	—
61	—	7 ^p	—	67	11 ^b	31	—	—	7 ⁿ	13
67	7 ^l	—	11	13	—	17	—	7 ^p	97	19
71	17	—	61	7	—	—	31	23	11	—
73	11 ^m	19	71	—	—	23 ²	7 ^b	—	59	—
77	—	17 ^k	19	7	37	—	11 ^g	—	—	79
79	101	—	—	—	13	7	103	17	—	11
83	13 ²	31	7 ^b	41	11	—	59	—	—	7
89	—	7 ⁿ	11	17	—	19	—	13	7	—
91	79	53	—	7	101	11 ^g	—	61	31	17
97	—	—	7	11 ²	23	—	101	19	103	7

β	181	184	187	190	193	196	199	202	205	208
1	23	—	—	—	—	17	7	—	13 ⁱ	11 ^m
3	43	7 ^f	59	31	97	—	13	89	7 ^l	71
7	19	79	13	83	43	7	17	11 ²	—	—
9	7 ^g	41	53	—	—	—	43	7	—	—
13	59	—	—	—	7 ^m	11	—	17 ^l	73	13
19	—	113	—	7 ^g	—	23	—	—	17 ²	109
21	—	13 ²	97	23	139	7	11	73	—	47
27	—	—	61	53	7 ^f	19	—	113	13	59
31	—	7	—	—	13	67	19	—	7 ²	37
33	—	—	11 ^g	7	—	29	31	—	—	83
37	7	103	41	—	61	73	—	7 ³	11	67
39	11 ^b	—	7	79	83	41	127	37	19 ^k	7 ^g
43	—	—	—	137	23 ^l	13	—	31	—	19
49	—	19	—	43	11	7 ²	—	—	—	—

NUMERORUM.

15

γ	182	185	188	191	194	197	200	203	206	209
3	109	—	—	7	—	17 ⁱ	83	79	11	—
9	131	83	7	97	13	—	11 ^b	23	37	7 ^l
11	—	107	13	29	7 ^q	23	—	19	—	11
17	—	—	31	7	—	—	37	11	53	13
21	7 ⁱ	—	11 ^l	—	—	13 ⁿ	—	7	17	—
23	—	—	7	13	—	11 ²	—	—	41	7 ⁱ
27	11	97	67	31	—	—	7	—	—	17
29	—	7	19	11 ⁿ	—	109	—	29	7 ²	—
33	—	43	37	19 ²	—	7	13 ^k	—	47	11 ²
39	13 ^k	—	—	—	7	—	29	11 ^p	—	—
41	17 ^l	—	83	—	—	19	7 ²	—	—	43
47	7 ⁱ	17	47	41	—	7 ^{2g}	—	—	11	—
51	—	13	7	11	53	—	—	47	107	7 ^o
53	—	—	17	107	7 ²	—	11	—	19	23
57	—	7 ^f	109	—	—	23	31	—	78	19
59	19 ^m	67	—	7 ^{2b}	11 ^l	—	13	—	73	—
63	7	19	13	—	—	—	—	7	—	—
69	—	31	—	29	—	53	7 ^q	—	11	13
71	11 ²	7 ²	113	19	—	17	—	13	7	67
77	7 ²	13	43	127	—	—	17	7 ^o	23 ^l	11
81	101	17	79	—	7 ^{f2}	131	43	89	—	—
83	47	—	23	—	—	73	7 ⁱ	14 ^b	13 ⁿ	—
87	—	—	11 ^b	7	13	47	53	19 ^l	137	31
89	—	29	13	31	—	7 ^f	—	—	17	139
93	11	—	7	17	101	—	71	—	—	7
99	29	7	—	73	17 ^m	13	101	—	7	11 ^k

β	181	184	187	190	193	196	199	202	205	208
51	7	—	17	—	37	43	71	7 ^f	—	29
57	67	—	—	17 ⁱ	13	11	7	47	61	—
61	11 ^g	—	73	7 ²	19	—	—	—	29	23
63	41	37	29	11	17 ²	7 ^r	—	23	—	31
67	37	59	7 ²	23	107	71	41	13	131	7 ^f
69	—	11 ^k	137	—	7	13 ^b	19	—	67	41
73	17	7 ^{2g}	—	—	—	103	—	11 ⁱ	7	—
79	7 ⁱ	17	89	—	—	14	—	7	13	—
81	—	—	7	—	—	—	13 ^l	17	11	7 ⁱ
87	13	7 ⁱ	—	—	—	—	11 ^k	—	7 ^b	—
91	—	11 ^o	19 ^k	17	—	7 ^l	—	103	59	13
93	7 ^k	—	—	61	11 ^o	47	—	7 ^g	—	17
97	31	53	—	13 ²	7 ^b	—	—	—	43	—
99	—	13	11	71	19	—	7	53	—	—

α	210	213	216	219	222	225	228	231	234	237
1	—	7 ^b	—	11 ²	149	—	151	13	7	157
7	7	11 ^g	17 ^m	19	53	71	—	7	89	151
11	—	101	—	—	7 ⁱ	—	—	11 ²	41	131
13	—	—	—	17	97	47	7	29	13	23
17	—	—	—	7 ^m	13	11 ^k	—	—	—	37
19	—	—	13	23	17	7	19	61	11	—
23	—	—	7	11	71	101	29	19	59	7
29	17	7 ^f	43	—	—	13	37	101	7	61
31	—	83	97	78	11 ^p	—	17 ²	—	—	19
37	109	19	7 ^f	—	37	31	41	17	23	7
41	53	—	17 ⁱ	37	23	—	7 ^g	73	11	—
43	11	7	23	—	13 ^l	—	53	—	7 ^b	—
47	13	—	—	17	—	7	11 ^m	79	—	—
49	7 ^m	37	—	47	19	—	73	7	131	11 ^b
53	37	131	59	29	7 ^{fb}	19	—	13 ²	47	—
59	—	13 ^m	11 ²	7	—	17	—	—	—	23
61	—	41	—	—	113	7 ^f	—	19 ^k	29	—
67	—	23	47	11	7	—	13	—	31	—
71	19	7 ^p	13	127	—	—	—	17 ^l	7 ²	11
73	13	11 ^l	—	7 ^p	—	—	89	—	—	—
77	7	—	53	—	—	107	—	7 ^{2f}	17	13 ^m
79	107	—	7 ⁱ	31	—	67	137	13	53	7 ^p
83	29	—	—	13 ⁱ	—	11	7 ²	97	23	17
89	—	73	23 ²	11	31	7 ²	47	—	83	—
91	7 ^k	—	109	—	—	19 ^l	11	7	13 ²	37
97	17 ²	—	13	—	11	59	7	—	—	53

β	211	214	217	220	223	226	229	232	235	238
1	—	—	—	7 ²	29	97	—	—	71	—
3	47	17	11	—	—	7	37	—	19	13
7	—	—	7 ²	59	—	13 ⁿ	—	23	11	7 ⁱ
9	11 ⁱ	97	17	13	7	23	31	—	—	29
13	43	7 ²ⁱ	—	—	53	—	11	139	7	—
19	7 ²	—	37	97	11	—	13 ^o	7 ^m	29	—
21	—	31	7 ^l	19 ²	13 ^b	—	—	11	43	7 ^o
27	37	7	—	—	83	11 ⁱ	101	—	7	—
31	11 ^b	29	31	—	137	7 ^r	23	13	—	—
33	7	—	103	11	23	13	17 ⁱ	7	101	—
37	23	13 ^b	—	—	7	—	—	19	—	11 ²
39	—	11	—	—	89	—	7 ^l	17	—	31
43	—	41	17	7 ^q	—	—	—	11	13	113
49	—	89	7 ^g	17	—	11 ^l	53	67	—	7

NUMERORUM.

17

γ	212	215	218	221	224	227	230	233	236	239
3	7 ^g	—	—	23 ^m	43	7 ⁱ	—	7	—	11 ^o
9	127	137	113	—	—	—	7 ⁱ	11 ^g	—	—
11	—	7 ²	17	—	73	13	—	—	7	—
17	7 ²	—	—	17	29	—	—	7	11 ⁱ	—
21	—	—	—	11	7	—	—	—	13 ^k	19
23	19	—	139	—	17	31	7 ^g	83	—	47
27	—	11 ⁱ	13 ^k	7 ^l	41	—	—	—	—	71
29	13 ^k	—	83	—	11	7 ^b	—	41	—	—
33	17	61	7	—	—	127	31	—	—	7 ^g
39	67	7 ^b	—	13 ²	19	—	—	—	7 ^f	37
41	11	13	—	7	—	—	—	17	47	89
47	—	29	7	—	—	23 ²	19	37	13 ^b	7 ^f
51	79	23	—	17	11 ^g	—	7 ⁿ	19	67	43
53	53	7	13 ^o	—	—	61	—	11 ²	7 ^m	17
57	29	—	11	—	17	7	—	—	41	—
59	7	—	—	—	37	11	—	7 ^q	59	13 ⁱ
63	11	—	—	37	7	13 ^b	—	61	—	31
69	—	—	19	7	—	—	17 ^k	—	—	11
71	89	11 ⁿ	—	—	23	7	—	—	—	—
77	—	—	131	67	78 ²	—	47	97	—	—
81	13	7	—	41	—	11 ⁱ	—	103	7 ^b	—
83	—	113	79	7	—	—	41	67	11	29
87	7	—	43	11	113	—	—	7 ^g	—	17 ²
89	61	—	7 ^r	—	43	13	11	19	—	7 ^k
93	107	11 ^g	—	—	83	23	7	149	19 ^l	—
99	19 ²	—	61	79	149	7	—	—	13	103

β	211	214	217	220	223	226	229	232	235	238
51	13	19	—	—	7 ^m	—	59	—	11	17 ^k
57	—	43	—	7 ^k	79	139	11	13	—	—
61	7	11	47	13	59	17 ^m	—	7	—	107
63	—	13 ²	7	—	11 ⁱ	131	—	43	—	7 ²
67	61	—	—	—	—	19	7 ^b	53	—	29
69	—	7	11	29	—	—	103	—	7 ² ^g	—
73	31	109	—	—	13	7 ^o	—	17 ⁿ	11	—
79	—	47	29	—	7 ^k	—	11	—	17 ⁱ	—
81	59	—	23	71	—	37	7 ⁱ	31	—	11 ^g
87	—	—	—	13	61	7 ²	127	11 ^l	103	—
91	—	—	7 ^f	—	—	—	83	—	31	7
93	—	—	19 ^m	—	7 ²	11	—	—	—	—
97	11 ^o	7 ⁿ	71	19	—	—	13 ^l	—	7	23
99	17 ^l	—	—	7 ² ^f	13	—	109	23	—	—

C

24000

α	240	243	246	249	252	255	258	261	264	267
1	—	19	73	37	11 ^l	7	—	43	17	—
7	—	109	11	—	7 ^g	23	13 ^l	—	—	17
11	13	7 ^k	—	29	17	97	53	—	7 ^h	—
13	11 ⁿ	41	151	7	19	31	83	—	61	—
17	7 ^q	—	103	—	151	17 ⁱ	11	7 ^{2g}	—	—
19	—	83	7	—	—	13 ²	—	—	29	7 ^f
23	—	13	—	—	11	—	7 ^{2b}	151	—	—
29	—	—	11	97	—	7 ²	23	17 ^l	13 ⁱ	—
31	7	29	—	107	23	11 ²	13	7	—	—
37	13 ^p	—	71	11	—	—	7	59	—	—
41	29	101	41	7 ²	43	—	—	—	137	11 ^{2g}
43	—	11	19	—	—	7 ^o	43	13	31	47
47	139	97	7 ²	13 ⁱ	—	59	—	11	53	7
49	—	13	157	61	7	29	—	79	—	23
53	67	7 ⁱ	89	—	—	11 ^k	103	—	7	31
59	7 ²	—	—	11	13 ^l	61	19	7 ⁿ	—	—
61	—	17	7 ^g	109	—	—	11	—	47	7
67	41	7 ^s	17	—	11	37	—	137	7 ⁱ	13 ^l
71	—	—	—	—	37	7 ^g	41	—	103	19
73	7 ⁱ	—	11	13 ^b	127	107	7	—	23	41
77	—	19	—	—	7 ^k	—	113	—	11 ^l	—
79	11 ²	—	23 ^l	—	17	—	7	47	—	61
83	—	37	—	7 ^p	131	—	11 ^g	—	71	—
89	13 ^b	29 ²	7	—	11 ³	—	—	—	—	7 ^p
91	—	—	—	67	7	157	17	11	59	73
97	—	31	—	7	41	11 ^g	19 ^l	17 ^k	—	127

β	241	244	247	250	253	256	259	262	265	268
1	7 ^f	13	17	23	—	—	59	7 ^l	—	—
3	—	23	7	11	—	—	—	—	17	7 ²
7	—	—	31	17	—	29	7	73	13	11
9	—	7 ^f	—	89	—	—	13	—	7 ²	17 ⁱ
13	—	—	13	—	17	7	—	11	—	—
19	89	—	19	127	7	11 ^b	—	157	23	13
21	—	—	59	131	—	—	7 ^{2k}	13	11	—
27	23	13	79	29	19 ^m	7 ²	11	—	41	139
31	59	11	7	—	73	19 ²	—	17	43	7
33	—	53	—	—	7 ^{2f}	—	—	37	13 ²	—
37	—	7	29	—	13	31	37	—	7 ^b	47
39	101	—	11 ^g	7 ³	—	—	—	19	—	—
43	7	—	109	79	—	—	—	7 ^k	11 ⁱ	17
49	100	23	—	37	—	13	7 ^f	—	139	—

NUMERORUM.

19

γ	242	245	248	251	254	257	260	263	266	269
3	—	¹⁰⁷ —	17	¹³ —	⁷ⁱ —	—	—	29	37	—
9	43	—	—	^{7b} —	—	47	31	—	¹¹⁰ —	71
11	^{11m} —	¹²⁷ —	43	—	—	7	¹⁹ⁿ —	83	^{13k} —	17
17	61	—	^{13k} —	—	7	—	—	—	43	11
21	53	^{7m} —	—	—	11	^{17²} —	—	—	7	—
23	—	¹³⁷ —	¹⁰³ —	⁷ⁿ —	—	29	53	11	79	¹³ⁱ —
27	7	—	¹¹ⁿ —	—	47	13	17	7	—	—
29	—	19	7	13	59	11	—	¹¹³ —	31	7
33	11	—	19	⁴ⁱ —	²⁹ —	—	7	17	—	²³ —
39	—	53	59	²³ —	—	7	13	—	17	^{11m} —
41	7	^{11k} —	—	³ⁱ —	¹³ⁱ —	—	—	^{7r} —	—	29
47	—	—	—	—	—	—	^{7t} —	—	—	—
51	—	—	—	7	31	11	¹⁰⁹ —	13	29	—
53	79	43	29	—	—	^{7g} —	—	^{19²} —	11	—
57	¹²⁷ —	13	^{7r} —	11	—	43	71	—	^{19k} —	7
59	17	⁴ⁱ —	—	¹³⁹ —	7	—	^{11k} —	43	53	—
63	19	^{7f²} —	^{23²} —	—	—	—	67	41	^{7g} —	59
69	7	79	13	—	—	73	¹³¹ —	7	—	¹⁴⁹ —
71	13	—	^{7bf} —	—	—	—	^{29²} —	—	¹⁴⁹ —	7
77	11	7	—	17	73	¹⁴⁹ —	89	13	⁷ⁿ —	53
81	—	47	¹³⁹ —	^{13²} —	83	^{7l} —	11	^{23m} —	—	—
83	7	^{13t} —	¹⁴⁹ —	—	17	^{19k} —	—	7	—	^{11²} —
87	¹⁴⁹ —	23	41	89	^{7f} —	¹⁰⁷ —	19	—	—	—
89	¹⁰⁷ —	67	—	—	⁷ⁱ —	¹⁷ⁿ —	7	11	13	¹³⁷ —
93	17	—	^{11m} —	^{7t} —	^{13r} —	—	⁹⁷ —	—	—	—
99	^{11q} —	17	7	¹¹³ —	43	—	—	—	—	^{7²i} —

β	241	244	247	250	253	256	259	262	265	268
51	—	^{7²} —	53	¹³⁰ —	¹⁰¹ —	¹¹³ —	—	—	7	11
57	^{7²b} —	37	19	—	—	—	¹⁰¹ —	^{7f²} —	—	¹⁰⁷ —
61	37	61	11	19	7	67	13	—	—	—
63	73	17	—	71	13	11	7	—	¹⁰¹ —	—
67	^{11g³} —	43	—	7	—	—	23	—	31	67
69	—	—	^{17m} —	^{11p} —	23	⁷ⁱ —	—	¹⁰⁹ —	¹⁶³ —	⁹⁷ —
73	23	—	7	—	—	—	19	^{13p} —	—	^{7f} —
79	—	^{7g} —	⁷ⁱ —	³ⁱ —	41	—	83	11	7	—
81	—	—	—	7	17	61	—	41	19	—
87	^{19²} —	47	7	—	53	17	13	97	11	^{7k} —
91	17	19	13	11	—	23	^{7q} —	61	—	—
93	13	7	—	23	67	—	^{11b} —	—	⁷ⁱ —	—
97	—	^{11b} —	¹³⁷ —	—	¹⁰⁹ —	7	—	—	—	13
99	7	—	—	19	11	31	—	^{7b²} —	67	37

C ii

27000

TAB. I. DIVISORES

α	270	273	276	279	282	285	288	291	294	297
1	13 ^m	23	7	—	—	11	83	—	—	7
7	113	7 ^q	19	11 ^p	67	29	—	13	7	61
11	—	31	—	13 ⁱ	—	7	47	43	—	11 ⁿ
13	7 ^b	11 ^g	53	103	89	—	—	7	67	43
17	—	59	—	—	7 ^l	—	—	11	23	—
19	41	17	71	—	—	19 ²	7 ^k	37	13 ^m	113
23	61	89	23	7	13 ²	11	19 ⁿ	—	—	—
29	151	—	7	11	—	47	127	—	—	7 ^m
31	—	151	—	17 ^m	7 ⁿ	103	11	—	19	13
37	19	—	29	7 ^g	11 ^b	—	—	—	—	131
41	7	19	131	—	31	—	151	7 ^k	59	—
43	—	37	7 ^f	—	61	17 ^k	—	151	—	7 ²
47	17 ⁿ	23 ^l	—	—	47	—	7 ^g	—	11	151
49	11	7	43	19	13 ^o	—	17	103	7 ²	71
53	13	17	—	—	19	7	11 ^p	—	—	—
59	—	109	17	73	7 ^f	—	—	13	89	—
61	—	—	139	—	59	13 ⁴	7 ² ⁱ	11 ²	17	—
67	—	—	73	—	23	7 ² ^f	—	—	79	17 ²
71	11 ^k	101	7 ^s	83	17	—	—	31	13	7
73	—	31	—	11	7 ²	—	13	—	—	19
77	—	7	13	101	—	17 ^o	67	163	7	11
79	13	11 ⁱ	89	7 ²	—	—	—	—	41	97
83	7 ^r	139	19 ^m	—	—	101	17	7 ^f	—	13 ^l
89	103	61	—	13	—	11 ^k	7	17 ²	37	—
91	—	7 ² ^g	—	23	19	—	167	—	7 ^f	31 ³
97	7 ³	—	—	—	—	—	11 ⁿ	7 ^p	13	83

β	271	274	277	280	283	286	289	292	295	298
1	41	11 ^q	—	—	7 ^g	37	—	—	—	17
3	—	67	13	41	11 ^m	—	7	19 ^l	163	—
7	—	—	103	7	—	—	137	—	19	41
9	—	—	11 ²	37	—	7 ^t	—	—	23	13
13	19	79	7 ⁿ	109	23	13 ^m	29	131	11	7
19	47	7	53	—	—	—	11 ²	61	7	—
21	37	17	19	7	127	—	—	—	53	11
27	—	—	7 ^b	—	13	—	—	11	—	7
31	13	—	11	—	41	—	7	—	—	23
33	43	7	—	17 ²	29	11 ⁱ	—	23 ^o	7	—
37	11	—	—	23 ²	43	7	19	13 ²	—	—
39	7	23	—	11	17	13	43	7	109	53
43	—	13	—	29	7	—	103	—	31	11
49	17	—	—	7	—	—	—	11	13	19

NUMERORUM.

γ	272	275	278	281	284	287	290	293	296	299
3	11	7	—	157	—	—	13 ^k	—	7	17
9	78 ²	—	—	—	—	19	—	7 ^r	29	11
11	—	11 ^o	7 ^l	—	—	—	67	—	—	7
17	17	7	—	31	157	13 ^q	—	19	7	—
21	163	13 ^l	43	61	97	7 ^f	—	109	19	—
23	7	17	—	—	43	—	—	7 ^s	11	23
27	19	—	—	11	7 ^m	23	—	—	13 ^p	—
29	73	—	17	23	—	—	7 ^{fg}	139	—	173
33	113	11	15	7	—	59	—	—	—	37
39	—	—	7 ^o	19	—	29	71	—	107	7 ² g
41	—	—	11	107	7 ^b	41	113	13 ⁿ	—	79
47	11	13 ²	—	7	—	17 ⁱ	31	—	23	—
51	7 ^b	—	—	—	23	—	11 ⁱ	7 ²	149	61
53	—	59	7 ^k	47	37	—	17	149	13	7 ^f
57	97	17	89	37	11 ^g	149	7 ²	31	47	29
59	—	7 ^m	13	29	149	—	—	11 ^b	7 ⁱ	—
63	137	43	11 ^b	—	—	7 ²	—	—	—	19 ²
69	11 ⁿ	19	29 ^m	17	7 ⁱ	13	41	43	—	23
71	—	79	47	11 ^g	71	—	7	23	—	17 ^o
77	—	11 ^k	61	19	—	7	—	19	59	31
81	—	—	7 ²	—	19	17	13	11	67	7
83	—	—	—	—	7 ^g	107	127	—	—	—
87	13	7 ²	79	71	61	11	17 ^l	—	7	157
89	29	47	167	7	31	—	19	—	11	—
93	7 ²	41	—	11 ²	—	—	47	7 ^{bg}	23	89
99	—	11 ^g	23	163	—	31	7	—	17	131

β	271	274	277	280	283	286	289	292	295	298
51	19	97	—	—	—	7	13 ^b	—	29	—
57	13	—	41	—	7	—	23	17	11	73
61	157	7	17 ^k	11	79	—	—	29	7 ^o	13
63	23	29	—	7 ⁱ	113	—	11	13	17 ⁿ	—
67	7	11 ²	—	13 ^b	19	109	83	7 ⁿ	—	—
69	101	13	7	—	11	—	59	—	—	7 ^b
73	29	83	—	67	17	53	7	73	—	—
79	—	—	—	43	13 ⁿ	7 ^b	—	19 ^k	11	—
81	7 ^f	—	13	—	101	23 ^l	73	7 ^q	—	—
87	31	—	37	—	—	—	7 ^o	—	—	11 ² g
91	—	37	—	7	11 ^l	13	53	17	127	71
93	71	19	—	13	—	7	79	11	101	167
97	—	31	7 ^{i²}	—	73	—	107	—	17	7
99	59	107	—	—	7	11	47	83	—	29

30000

TAB. I. DIVISORES

α	300	303	306	309	312	315	318	321	324	327
1	19	157	71	13	41	17 ²	7 ² _f	47	—	53
7	37	—	127	31	11	7 ²	17	97	23	—
11	—	17	7	—	23 ²	—	13	163	—	7
13	—	—	11 ³	19	7 ⁴	—	29	17	—	—
17	13	7 ^t	17	43	19 ^m	—	—	—	7 ^f	—
19	11	—	67	7 ²	—	43	47	—	17	—
23	7	—	113	17 ²	—	29	11 ²	7 ^g	—	43
29	—	13	109	157	11 ^b	41	7	19 ²	—	23
31	59	7 ²	—	—	—	—	139	11 ^k	7 ^o	71
37	7 ²	23	—	—	—	11 ^q	13 ^m	7	163	19
41	11	—	13	—	7	—	17	—	—	29
43	13	19	—	11 ^l	157	—	7	—	—	137
47	—	—	19	7	—	—	—	17 ^m	71	11 ^g
49	151	11 ^m	—	—	—	7	—	13	37	—
53	41	127	7 ^l	13	—	139	53	11 ⁿ	17 ^k	7
59	—	7	23 ^p	83	—	11 ⁱ	—	—	7	17 ^o
61	23	97	—	7	43	37	151	29	11 ^g	181
67	107	—	7 ^g	173	—	—	11	19	—	7 ^m
71	—	11 ²	—	—	—	131	7 ^l	53	19	—
73	17 ^l	7	37	47	11	—	—	—	7	13
77	19	37	—	—	—	7 ^g	127	23	47	73
79	7	17	11	13	31	23	71	7	—	—
83	67	23	61	—	7 ^o	—	—	—	11	—
89	—	—	—	7 ⁱ	67	31	11 ^g	—	53	—
91	—	—	47	17	13 ^l	7	—	—	—	11 ²
97	—	113	—	139	7 ^b	19	167	11	—	—

β	301	304	307	310	313	316	319	322	325	328
1	31	7 ^p	11	29	113	—	19 ^k	13	7	—
3	—	—	—	7 ^p	23	11 ^g ²	61	—	—	—
7	7 ^{fb}	13	—	101	—	—	—	7 ^p	—	53
9	—	47	7 ^o	11	131	73	17	31	19 ^l	7 ^p
13	—	17	—	—	173	101	7 ^q	—	130 ^t	11 ⁱ
19	—	19	13 ^b	—	—	7	59	11 ^l	31	37
21	7 ^g	29	31	67	—	103	137	7	17	23
27	47	—	—	19 ^k	—	—	7	13 ⁿ	11	17
31	29	—	79	7 ^{fg}	17 ⁱ	47	37	167	—	—
33	—	13	73	—	—	7	11	—	—	—
37	—	11	7	41	—	17	109	—	—	7
39	—	61	59	—	7 ²	29	19 ^o	103	13	—
43	43	7	71	37	13	—	17	19	7	—
49	7 ^s	—	97	61	23 ^l	—	43	7 ^b	11 ²	107

NUMERORUM.

γ	302	305	308	311	314	317	320	323	326	329
3	—	11 <i>q</i>	—	19	31	7 ²	—	—	—	13
9	17	—	—	13	7 ²	37	—	—	—	—
11	—	13	11	53	101	19	7 ^b	79	—	—
17	11 <i>o</i>	—	—	29 ²	89	7 ^k	101	17	13 ²	—
21	47	23	7 ^{2b}	—	13	—	11 <i>o</i>	—	—	7
23	—	13 ¹	13	—	7 ^u	—	31	—	17 ⁱ	11 <i>o</i>
27	167	7 ³	29	17	11	—	—	—	7 ^s	19
29	19 <i>n</i>	—	—	7	53	—	—	11	67	13 ^b
33	7 ²	19	11	163	17 ^p	13	103	7 ^m	—	—
39	11	—	—	—	149	17	7 ^k	73	127	—
41	—	7	—	11 ⁱ	23	—	179	—	7	—
47	7 ¹	11	109	—	13 ^o	53	73	7	—	47
51	13 ²	137	—	—	7	—	—	11 ^b	103	83
53	—	—	—	—	7 ¹	113	7 ⁱ	—	—	31
57	79	—	59	7	83	11	—	13 ⁱ	17 ²	—
59	—	—	—	—	163	7 ^g	—	—	11	23
63	53	13	7	11	73	23	—	—	89	7 ^b
69	—	7 ^f	—	7 ¹	—	—	—	—	7 ^g	—
71	—	19	—	7 ^t	11	—	13	—	37	—
77	13 ^b	—	7 ^f	—	—	43	—	—	41	7 ²
81	107	53	—	—	—	61	7	—	11	13 ^p
83	11	7 ^b	89	—	19	37	—	13 ^q	7 ^{2k}	—
87	31	73	67	13	23 ⁿ	7 ⁱ	11	139	—	—
89	7	13 ²	17 ^k	—	—	83	—	7 ²	97	11
93	—	—	—	—	7 ^f	—	67	29	—	—
99	41	37	11 ^r	7	13	—	—	179	19	—

β	301	304	307	310	313	316	319	322	325	328
51	11	37	7 ^k	—	107	31	89	—	43	7 ⁱ²
57	53	7 ⁱ	—	13	—	—	—	—	7	11 ^l
61	—	83	19	89	11	7	31	—	—	17
63	7 ^m	41	—	—	79	—	—	7 ^f	—	59
67	97	—	11	47	7	—	13	41	29	23
69	—	—	29	—	13 ⁱ	11	7	23 ²	—	—
73	11 ^g	31	—	7 ^k	137	19	—	59	—	7 ¹
79	103	29	7	—	—	79	113	13 ²	—	7 ^{2f}
81	—	11 ^b	—	—	7	13	—	19	31	13 ¹
87	—	43	17	7	—	—	29	83	—	—
91	7 ⁱ	—	41	—	—	11 ^p	—	7 ²	13 ^k	31
93	109	—	7 ^r	17 ^m	—	41	13 ^k	43	11	7 ⁿ
97	—	—	13 ^k	11 ²	—	29	7 ²	—	37	67
99	13 ^k	7	19	137	17	—	11	—	7	167

TAB. I. DIVISORES

<i>a</i>	330	333	336	339	342	345	348	351	354	357
1	61	—	—	7 ^l	23	—	13	11	—	19
7	13	19	7	41	79	11	—	—	—	7
11	11	—	19 ^l	—	—	—	7	—	17	13 ^o
13	—	7	—	11	—	—	31	13 ⁿ	7	71
17	137	—	—	13	—	7	37	—	107	11 ^b
19	7 ^r	11 ^g	—	107	19	—	—	7 ^l	—	23
23	—	47	—	—	7	19 ^k	97	11 ^m	—	139
29	—	—	—	7 ⁿ	13	11 ^p	29	—	71	—
31	17 ^l	—	13 ²	—	—	7	61	19 ^p	11	—
37	—	17 ⁿ	—	—	7 ^u	—	11	41	—	13
41	19 ⁿ	7 ^f	—	—	97	13	—	—	7 ^t	103
43	173	—	17	7 ^g	11 ²	—	—	113	23 ²	31
47	7	—	—	83	23	179	—	7	—	—
49	—	—	7 ^{fi}	17	29	—	—	—	—	7
53	—	—	73	19	—	109	7 ^g	—	11 ²	—
59	13	—	97	29	—	7	11	—	59	—
61	7	73	41	—	—	17 ⁱ	71	7	—	11
67	43	61	131	—	—	13	7 ^b	11 ^k	29	47
71	—	13 ^b	11	7 ^k	43	181	—	—	79	—
73	—	23	151	53	—	7 ^f	43	17	19	83
77	11 ^m	—	7 ^b	61	151	71	—	29	13	7 ⁱ
79	19	29	—	11	7 ^s	151	13	127	17	37
83	—	7 ⁱ	13	17	—	—	—	151	7 ⁿ	11
89	7 ^l	173	59	41	17	—	139	7 ^f	23	13
91	—	—	7	19	53	—	23 ⁿ	13	—	7
97	23	7 ^g	31	—	—	29	—	61	7 ^j	—

<i>b</i>	331	334	337	340	343	346	349	352	355	358
1	79	127	67	11 ²	—	7	17	—	131	—
3	7	—	—	37	—	—	11 ⁱ	7 ^q	13	—
7	—	11	37	31	7 ^{o2}	—	67	17 ⁱ	—	61
9	113	—	13	71	11	53	7	137	—	—
13	—	—	—	7 ^p	—	—	—	23	17	59
19	—	23	7	—	—	13	—	41	11	7 ^{2b}
21	11	19	—	13	7	89	47	—	—	113
27	157	—	29	7	—	31	53	—	—	11
31	7	101	89	—	11	—	13	7 ²	—	—
33	17	67	7 ^t	—	13 ⁱ	59	181	11	—	7
37	13	29	11	101	—	19	7 ^{2k}	167	—	—
39	31	7 ^b	—	—	23	11 ^q	—	131	7	—
43	11 ^k	53	41	59	61	7 ⁱ	83	13	—	73
49	—	13 ^m	—	79	7 ²	—	—	101	19	11

NUMERORUM.

25

<i>y</i>	332	335	338	341	344	347	350	353	356	359
3	—	—	7 ^f	67	—	—	17 ^l	43	—	7 ^k
9	—	7	—	23	19	61	13	17 ^m	7	149
11	—	23 ^m	—	7 ^f	13	103	157	—	149	—
17	59	11 ²	7	109	127	149	19 ²	—	—	7 ²
21	139	—	31	149	—	—	7	118 ²	179	17
23	—	7	149	—	29	13	—	—	7 ²	—
27	149	13	—	—	173	7 ^{f2}	—	—	23	37
29	7 ^q	—	—	—	—	—	23	7 ⁱ	110	19 ^m
33	167	—	23	11 ^l	7	47	53	89	13	—
39	43	11	13 ⁱ	7	—	—	37	—	157	83
41	13	17	43	—	11 ^m	7 ²	67	59	29	127
47	—	—	11 ^b	—	7 ²ⁱ	—	101	13	43	103
51	41	7	—	13 ⁿ	47	19 ^m	—	23 ^l	7 ^f	—
53	11	13 ^l	97	7 ^{2b}	13 ⁱ	23	—	—	101	157
57	7	23	—	—	—	—	11	7	181	41
59	79	37	7 ²	—	17	—	—	19	13 ²	7 ^f
63	29 ^m	—	—	127	11 ^g	—	7	—	19	—
69	17 ⁱ	—	11	47	—	7	—	113	53	—
71	7 ⁱ	59	—	—	—	11 ^l	17	7 ^m	—	13
77	107	—	19	11 ^g	23	83	7	17	—	—
81	23	—	17	7 ⁱ	29 ²	—	—	—	31	11
83	83	11 ^p	31	—	—	7	—	41	17	—
87	—	—	7 ^q	17	—	43	13	11	127	7 ^r
89	—	—	—	179	7 ^g	19	—	43	89	17 ^l
93	13 ²	7	—	31	17	11	19	—	7	—
99	7 ^u	—	109	11	—	17 ^k	—	7 ^g	29	—

<i>y</i>	331	334	337	340	343	346	349	352	355	358
51	—	11	—	17	—	—	7	—	73	—
57	71	—	—	—	17 ^p	7	13	—	31 ²	23
61	—	—	7 ^g	—	—	11 ^k	—	37	43	7 ^q
63	13	109	19	23	7	17	—	179	11 ^r	—
67	17	7 ²	—	11 ⁱ	—	—	73	—	7	13 ^m
69	41	—	—	7 ^m	—	37	11 ^{2b}	13	—	—
73	7 ²	11 ^b	—	13	37	—	41	7	—	29
79	—	—	17	53	31	—	7 ⁱ	—	47	—
81	—	7	11 ⁿ	173	—	79	—	—	7 ^{8b}	53
87	7 ^f	—	13 ^k	89	137	—	59	7 ^v	19	17
91	—	107	—	73	7 ^{b3}	115	11	—	—	19
93	19	—	47	103	163	—	7	29	—	11 ^g
97	89	19 ^o	—	7	11 ^r	13 ^b	79	47	—	—
99	—	139	73	13 ^p	41	7	31	11	97	—

D

36000

TAB. I. DIVISORES

<i>a</i>	360	363	366	369	372	375	378	381	384	387
1	7 ⁿ	3 ⁱ	17	—	—	—	10 ³	7	11	13 ²
7	—	—	—	13 ^b	29	—	7 ^f	53	193	—
11	—	11	31	7	127	—	—	23	71	—
13	—	—	19 ^o	—	11 ^b	7 ^k	—	—	107	—
17	—	23	7	19 ^l	—	—	13	47	41	7
19	181	—	11	—	7 ^g	17	59	—	103	31
23	13 ^b	7	53	—	—	157	109	67	7 ^f	—
29	7	17	—	—	59	—	11 ⁱ	7 ^g	83	—
31	137	47	7	—	31	13	—	17	—	7 ^f
37	—	7 ^l	—	43	23	—	157	11	7 ^{b2}	—
41	23	—	11	17 ^o	167	7 ^m	79	43	13	19
43	7 ⁱ	—	—	—	—	11	13 ^o	7	37	17 ^p
47	11 ^l	19	13	—	7 ^b	—	—	37	—	—
49	13 ^q	163	67	11	193	—	7	—	—	—
53	31	—	—	7	—	17 ^q	—	—	—	11 ^g
59	107	103	7	13	19 ⁿ	23 ²	17 ²	11	—	7 ⁱ
61	—	13	61	23	7	—	—	31	—	83
67	—	41	37	7	83	—	19	—	11 ^g	—
71	7	37	—	11	13 ^q	—	—	7 ⁱ	17 ^m	137
73	—	—	7 ^{g2}	—	—	—	11 ²	59	79	7 ^l
77	43	11	—	103	—	53	7 ²	—	109	17
79	109	7	43	—	11	—	—	73	7 ^k	13 ⁱ
83	—	—	—	31	23	7 ^g	43	—	29	—
89	151	—	19	47	7 ²	—	—	—	11	79
91	11 ^b	151	—	71	89	—	7	181	61	—
97	—	17	—	—	13 ⁱ	7 ^o	—	—	137	11
<i>B</i>	361	364	367	370	373	376	379	382	385	388
1	13	89	7 ⁱ	163	11	19	151	—	—	7 ^k
3	79	59	17 ²	—	7 ^w	31	29	11 ^k	139	—
7	—	7 ²	11 ^q	23	—	—	—	13	7	151
9	—	23	—	7 ^b	—	11 ^g	167	19	97	197
13	7 ^f	13	—	—	—	29	31	7 ^r	19	37
19	19	79	73	—	67	—	7	—	13	11
21	41	7 ^{f2}	—	—	—	17	13	37	7	—
27	7 ^g	73	19	61	163	191	17 ^k	7 ^p	59	41
31	—	17	23	19	7	11 ²	83	—	53	13 ^l
33	23	—	109	29	37	—	7	13 ^b	11 ^m	—
37	—	83	17	7 ^g	—	61	59	—	89	71
39	71	13	—	—	—	7 ⁱ	11	—	17	—
43	47	11	7 ^l	17	107	—	19	167	—	7 ^m
49	37	7 ^o	—	—	13 ⁱ	—	137	23	7	53

NUMERORUM.

27

y	362	365	368	371	374	377	380	383	386	389
3	4 ⁱ	17 ³	13 ⁱ	11	11 ³	37	7 ^t	—	—	—
9	—	11	—	4 ³	—	7	19 ⁱ	29	—	13 ^o
11	7 ²	29	13 ⁱ	17 ⁿ	11 ⁱ	43	—	7 ^g	—	167
17	—	13 ^r	11	—	17 ^m	—	7	—	23 ²	—
21	29	59	—	7	23	67	19 ³	—	11	—
23	11 ⁿ	—	23	—	—	7 ^b	47	19	13	—
27	17	—	7	137	13	31	11	—	19 ²	7 ^u
29	—	—	13	107	7	29	17	—	—	11
33	19	7 ^b	—	71	11 ^o	97	73	—	7	—
39	7 ^m	61	11 ^b	—	29	13	—	7	—	23
41	—	—	7 ⁱ	13	—	11 ^q	109	23	17	7
47	67	7 ^k	—	11 ²	—	—	—	31	7	17 ^l
51	—	—	43	97	17	7	13	—	—	11
53	7	11	137	53	13 ^p	19	—	7	—	—
57	13	139	—	73	7	17	19	11 ²	29 ^m	163
59	101	—	29 ^m	—	47	61	7	89	67	—
63	—	—	19 ⁱ	7	—	11	17	13 ²	23 ^o	47
69	—	13 ^l	7 ^k	11 ^m	89	179	—	17 ⁿ	—	7 ⁱ
71	19 ^k	—	—	—	7 ^r	107	11	—	—	—
77	—	79	—	7 ^q	11	37	13 ^l	—	—	—
81	7 ^v	157	13	—	37	—	113	7	47	17
83	13	—	7 ^f	19 ²	—	—	—	131	101	7
87	131	—	—	41	19	29	7	23	11	13
89	11	7	37	—	—	23 ^r	41	13	7	127
93	—	23 ⁿ	79	13	—	7	11	—	—	—
99	—	—	—	—	7 ^f	—	31	19 ^p	—	59

B	361	364	367	370	373	376	379	382	385	388
51	—	—	11 ^g	7 ^u	41	23	—	29	19	—
57	11 ⁱ	—	7 ^s	—	—	—	—	67	—	7 ^{2g}
61	—	19 ²	—	—	—	13	7 ^{fb}	—	—	—
63	29 ²	7	97	13	—	—	—	83	7 ²	11
67	59	—	—	101	11 ^p	7	—	17	—	—
69	7	—	83	19	—	139	43	7 ^{2f}	—	47
73	61	—	11	131	7 ⁱ	101	13 ^k	—	17	—
79	11 ^{2g}	—	—	7	—	41	163	101	173	17
81	97	191	—	11	29	7 ²	19	—	41	59
87	—	11 ^m	—	—	7 ³	13 ²	—	—	47	37
91	—	7 ^g	—	29	139	—	—	11 ^s	7 ⁿ	—
93	17	—	—	7 ²	61	—	—	149	—	19 ^k
97	7	—	31	—	—	11 ^k	—	7	13	97
99	53	17 ⁱ	7 ²	23	149	—	13 ⁿ	—	11 ^s	7

D ii

39000

TAB. I. DIVISORES

n	390	393	396	399	402	405	408	411	414	417
1	43	—	199	—	7	101	—	23	19	11 ^b
7	19	23	—	7	31	—	13 ^p	11 ⁿ	47	179
11	7	19	11 ^g	107	79	17	37	7 ²	—	53
13	13	—	7	167	—	11 ^l	—	—	—	7 ^s
17	11	—	173	179	131	31	7 ⁴	—	83	13
19	—	7 ⁰	—	11 ⁱ	37	—	—	13	7 ^t	—
23	—	—	—	13 ⁿ	19 ^l	7 ²	—	17 ⁰	23	11
29	31	67	23	—	7 ²	—	—	11	17	—
31	23	37	—	73	—	—	7 ⁱ	—	13	29
37	103	139	13	—	—	7	97	31	11	—
41	—	—	7 ²	11	—	71	—	—	29	7 ^u
43	—	—	29	59	7	—	11 ^q	—	—	13 ³
47	—	7 ^{2f}	41	43	167	13	—	23	7 ^m	109
49	17	19 ²	31	7 ^g	11	23 ⁰	—	—	181	83
53	7 ²	23 ^l	19	—	—	107	—	7	—	43
59	139	—	—	31	127	—	7 ^g	79	11	—
61	11 ^r	7	17	89	13 ⁱ	47	29	—	7	—
67	7	—	—	17	67	113	—	7	—	11
71	89	—	—	—	7 ^f	29	23	13	115	—
73	41	—	97	71	17 ^k	13	7	11 ⁱ	67	37
77	23	13 ²	11	7	—	—	41	—	19 ⁿ	—
79	—	53	—	—	47	7 ^{fb}	—	—	—	41
83	11 ^{2b}	—	7	—	—	—	—	—	13	7 ^q
89	—	7 ^b	13 ^p	—	—	37	31	—	7	11 ^l
91	13 ^m	11	19	7 ^l	43	—	103	17	—	23 ²
97	—	—	7 ^r	23 ⁿ	59	—	—	13	17	7 ²

n	391	394	397	400	403	406	409	412	415	418
1	61	31 ²	29 ⁿ	13 ^b	191	11	7	—	47	—
3	—	7 ^g	—	109	41	19	—	—	7 ^{3f}	17
7	—	157	59	11	17	7	19	89	—	97
9	7 ⁿ	—	—	—	173	—	11	7 ^{2l}	13 ^m	—
13	—	11	151	—	7 ^g	17	163	—	—	—
19	—	—	—	7	23	151	17 ^l	47	—	19 ^m
21	19 ^l	79	11 ^k	31	61	7 ²	151	—	—	13
27	11	89	—	13	7 ²	—	—	—	131	151
31	109	7 ^p	67	—	31	41	11 ²	—	7 ^b	59
33	—	47	—	7 ²ⁱ	53	179	—	—	41	11
37	7	113	79	—	11 ¹	—	13 ^q	7 ^p	73	17 ^k
39	—	—	7 ²	—	13 ^l	—	—	11 ^k	—	7 ^p
43	13	—	11	23	—	97	7	—	—	—
49	11	103	—	29	157	7	—	13 ⁱ	—	—

NUMERORUM.

29

γ	392	395	398	401	404	407	410	413	416	419
3	197	—	53	7 ^b	11	13 ^m	131	103	—	—
9	—	—	7 ^f	19	17	—	23	101	—	7
11	113	—	41	—	7 ^k	11	—	109	—	—
17	—	43	29	7 ^f	13	19	—	79	—	167
21	7 ^g	—	—	53	83	43	17 ⁱ	7	—	11 ⁿ
23	61	11	7	—	—	193	—	31 ²	107	7 ^r
27	—	29 ²	—	—	—	139	7	11b ²	—	—
29	—	7	—	—	—	13 ²	89	37	7 ⁱ	23
33	—	13	61	67	—	7 ^k	37	—	17 ^m	19
39	—	19	—	11 ^o	7 ^r	—	—	67	13	17
41	—	—	—	137	37	131	7 ^{fg}	—	—	—
47	13	71	—	19	11	7	—	173	—	—
51	—	—	7	—	19	—	—	—	—	7 ^g
53	17	37	11	—	7	83	61	13	23	—
57	37	7	—	13	23	53	—	—	7 ^f	—
59	11 ^p	13 ^b	23	7	—	—	19	59	—	—
63	7 ^v	—	—	—	43	—	11	7 ⁱ	61	29
69	107	—	—	—	11 ^g	59	7	41	—	—
71	173	7	13	17 ²	—	—	67	11	7	19 ^q
77	7 ^m	19	—	—	17	11 ²	—	7 ^k	71	13
81	11	—	19	23	7	13	—	—	—	—
83	163	23	—	11 ^g	—	17	7	29	73	—
87	17	31	—	7	—	—	181	—	—	11 ²
89	101	11 ^s	113	—	19	7	17	—	47	199
93	—	17 ²	7 ^o	—	—	19 ²	13 ^l	11 ^r	173	7 ²
99	13	7	17	61	—	11	73	—	7 ^{2k}	—

β	391	394	397	400	403	406	409	412	415	418
51	7 ^{2b}	—	127	11 ²	—	13 ^r	31	7 ^v	37	—
57	—	11 ^b	83	41	—	109	7	—	29	19
61	—	—	—	7 ^s	—	73	—	11 ³	13 ^k	41
63	—	19 ^m	17	—	181	7 ⁿ	13 ^k	—	89	—
67	53	61	78 ⁱ	103	37	11	71	29	197	7
69	13 ^k	29	—	17	7 ^w	67	53	—	11	149
73	43	7	31	11	47	89	—	149	7	13
79	7 ^l	11 ⁿ	—	13	149	19	43	7	—	—
81	—	13	7	149	11	17	107	—	43	7 ^m
87	149	7	11	—	—	23 ^l	17	19 ^o	7 ^g	—
91	—	17 ^k	—	47	13 ²	7	179	157	11 ⁱ	163
93	7 ^f	73	13	—	31	—	—	7 ^b	—	—
97	19	127	17	101	7 ^l	—	11	61	—	—
99	—	—	—	—	71	—	7	—	17	11 ^g

42000

TAB. I. DIVISORES

α	420	423	426	429	432	435	438	441	444	447
1	97	7	13 ^l	—	—	41	—	—	7	—
7	7 ^b	—	137	107	—	139	71	7	11 ²	13 ⁱ
11	43	29	—	11 ^q	7	13	193	—	89	—
13	—	17 ⁱ	43	13	79	53	7 ^f	31	23	61
17	—	11	19	7	23	—	43	157	—	97
19	—	101	17 ^k	167	11	7	29	—	43	197
23	—	—	7	—	—	71	13	—	31	7
29	13 ^t	7	47	—	139	191	41	—	7 ^f	—
31	11	—	89	7	17	101	53	—	157	41
37	127	—	7	—	—	13 ^b	59	19 ^k	37	7 ^{2f}
41	17	13	—	23	11	—	7	37	19	—
43	—	7 ^k	—	—	83	—	17	11	7 ²	101
47	19	17 ^q	11	67	59	7	163	131	13 ²	29
49	7	—	—	29	61	11 ⁿ	13	7 ^{2b}	—	73
53	11	41	13 ^b	—	7 ⁿ	97	—	67	—	—
59	137	—	29	71 ²	181	43	61	—	23	11 ^g
61	—	11	37	—	—	7 ⁱ	23	13 ^p	173	17 ^g
67	23 ^m	13	—	—	7 ²	19	—	29	53	89
71	—	7	71	97	—	11 ^b	19	—	7	—
73	—	—	139	7 ²	109	—	73	163	11 ^g	—
77	7	31	—	11	13	—	17 ^l	7	79	—
79	29	—	7 ^{2g}	—	113	—	11	—	19	7
83	—	11	—	53	—	41	7	17 ^k	—	19
89	—	19 ^k	—	—	73	7 ^g	—	—	17	—
91	7 ²	—	11	13	—	—	—	7 ^s	—	47
97	11 ^p	—	—	19 ^m	29	—	7	193	—	—

β	421	424	427	430	433	436	439	442	445	448
1	—	109	—	7	19 ^p	59	11 ^g	—	—	71
3	71	—	—	—	13	7	43	—	191	11
7	13 ^o	—	7	29	11 ^m	—	23 ²	—	—	7 ⁿ
9	17	—	—	41	7 ^k	—	19	11	47	—
13	23	7 ^w	11 ²	—	—	—	—	13 ⁱ	7	41
19	7 ^f	13 ²	—	—	—	53	37	7	—	—
21	73	59	7 ^b	11	—	181	167	—	211	7 ⁱ
27	103	7 ^{if}	—	17	37	—	13 ^m	47	7	23
31	—	151	13 ⁱ	37	—	7 ^k	197	11	—	127
33	7 ^g	—	151	23	17	—	—	7 ^v	—	107
37	29	—	—	—	7 ^o	11	53	31	—	13
39	—	31 ⁿ	79	193	19	17 ²	7	13 ^o	11	—
43	17 ⁿ	—	—	7 ^{fg}	89	19	—	151	—	—
49	113	11 ^b	7 ^m	—	67	—	71	—	—	7 ^p

NUMERORUM.

31

γ	422	425	428	431	434	437	440	443	446	449
3	7	19	23	—	—	11 ^l	79	7	13 ^q	83
9	—	—	13 ⁿ	11	83	109	7	59	31	—
11	13 ^b	7	31	19	—	—	11	73	7	97
17	7 ⁿ	17 ^o	47	—	11	—	—	7 ^g	—	—
21	—	101	—	13 ^m	7	—	—	23 ^o	—	29
23	—	13	11 ^b	29	173	23	7 ⁱ	127	—	167
27	—	23 ^p	113	7 ^t	—	73	—	19	11	—
29	11 ²	71	—	17 ^p	137	7	—	97	13	179
33	157	—	7 ^l	—	13 ²	101	11	43	—	7 ⁱ
39	—	7 ^s	—	179	11 ²	191	47	101	7 ²	—
41	53	19	—	7	—	17 ^m	—	11 ^l	—	13
47	83	157	7	13	23	11 ^o	17	61	—	7
51	11 ^k	17	73	—	—	67	7 ^{2l}	—	—	79
53	29 ^q	7	—	11	19	—	—	17	7	—
57	—	—	17	103	—	7 ²ⁱ	13	—	—	11 ^t
59	7	11 ^r	—	—	13	—	—	7	17 ⁿ	—
63	13	31	—	17	7 ²	107	139	11 ⁿ	59	—
69	43	—	163	7 ²	17	11 ^k	127	13	19	193
71	41	—	43	23	29	78 ²	—	—	11 ^m	—
77	67	—	53	—	7	—	11	199	43	41
81	—	7 ^{2f}	137	29	—	—	17	—	78	31
83	—	97	19 ⁿ	7 ^m	11 ^s	—	13	—	—	—
87	7 ²	37	13	19	—	—	—	7 ^b	—	—
89	13	—	7 ^f	—	157	—	—	—	23 ^l	7
93	—	191	59	47	23 ^m	—	7	103	11 ^b	13
99	—	41	—	13	—	7	11 ⁱ	29	—	17

β	421	424	427	430	433	436	439	442	445	448
51	61	—	—	—	7 ^f	—	—	17 ⁱ	13 ^k	—
57	—	—	11 ^g	7	191	149	113	—	17	31
61	7 ⁱ	—	61	17 ²	131	—	—	7	11	113
63	11	—	7 ^o	—	103	47	—	—	—	7 ^{bg}
67	149	—	—	—	17	13	7 ^f	—	41	—
69	—	7	19	13	31	—	—	—	7	11
73	181	—	—	19	11	7 ^b	—	—	29 ²	23
79	—	107	11	23	7	31	13 ^b	—	—	—
81	—	23	179	67	13 ^q	11 ²ⁱ	7 ^t	—	109	37
87	—	—	—	11	43	7 ^x	—	67	—	—
91	31	—	7	41	—	—	—	13	17 ^p	7 ^f
93	—	11	—	—	7	13	29 ^o	—	19	—
97	—	7 ^g	—	71	—	37	—	11	7 ^k	17 ⁱ
99	19	—	127	7 ^q	—	89	23	31	103	59

45000

TAB. I. DIVISORES

α	450	453	456	459	462	465	468	471	474	477
1	11	89	31	197	47	7 ^{2g}	17	19 ⁿ	107	—
7	—	—	59	29	7 ^{2k}	—	—	17 ²	—	11
11	19 ^k	7	17	31	11	—	—	—	7 ^g	—
13	—	113	—	7 ²	37	193	13 ²	11	17	—
17	7 ^s	—	11 ^{2g}	17 ⁿ	113	181	—	7 ^r	—	—
19	13	—	7 ⁴	47	—	11	—	—	—	7 ^b
23	11	61	43	19	17	—	7	—	47	13
29	37	—	103	13	—	7 ^{b2}	—	—	43	11
31	7 ²	11 ^g	—	23	83	19 ^m	—	7	—	59
37	29	—	47	71	—	173	7	—	13 ^o	—
41	73	—	—	7	13	11	31	17 ^q	—	—
43	31	—	13	—	131	7 ^t	139	—	11 ⁱ	—
47	107	137	7	11	103	89	79	—	17	7 ⁱ
49	19	101	191	—	7	—	11	—	23	13
53	—	7 ^{if}	71	—	23	13	—	61	7	17 ^r
59	7 ^o	67	—	—	167	—	47	7	—	163
61	—	—	7 ^f	19 ^o	—	101	—	—	31	7
67	11 ^b	7	—	43	13	—	—	101	7	37
71	13	59	109	—	—	7	11	43	37	23 ^m
73	7 ^q	17 ²	—	31	—	—	19	7 ^k	29	11 ^p
77	—	—	—	23	7 ^f	47	—	13 ⁱ	197	—
79	61	23	17	—	—	13	7 ⁿ	11	79	—
83	—	13	11	7	31	37	173	29	103	71
89	11	—	7 ^t	—	41	—	—	—	13 ²	7
91	67	19	—	11 ⁿ	7 ^b	—	13	41	—	—
97	13	11	—	7	67	17	23	109	—	—

β	451	454	457	460	463	466	469	472	475	478
1	7 ^b	83	23	157	—	—	—	7 ^f	—	13
3	23 ⁿ	—	7	179	19	29	17 ^m	13	67	7
7	43	17	—	13	—	11 ⁱ	7	—	—	—
9	79	7 ^g	43	139	—	127	61	17	7 ^f	—
13	197	—	17	11 ^q	29	7	43	31	—	137
19	—	11	131	17	7 ^g	—	—	23	19 ^o	—
21	—	53	13	—	11	23	7	—	—	17 ^l
27	—	—	11	—	—	7	167	83	—	13 ²
31	—	181	7 ^q	191	107	13 ^b	71	73	11 ^l	7
33	11 ²	—	191	13	7	—	—	149	—	31
37	—	7	—	19	—	149	11 ^b	—	7	—
39	—	—	53	7	149	—	73	97	137	11
43	7	29	149	41	11 ²	—	13 ^k	7 ^b	—	—
49	13 ^k	47	11	—	—	—	7 ⁱ	37	17	59

NUMERORUM.

γ	452	455	458	461	464	467	470	473	476	479
3	17	—	163	—	7 ²	—	11	—	181	—
9	53	17	19	7 ²	11	13	29	—	—	23
11	29	71	61	13	—	7	53	11 ^{2b}	47	—
17	103	23	—	107	7 ⁱ	11 ^m	—	—	17	—
21	11	7 ²	—	17	61	19	13	79	7	173
23	41	—	—	7 ^f	13	—	59	37	—	17
27	7 ^{2g}	53	—	193	17	—	31 ⁿ	7	97	11
29	31	11	7	163	29	83	131	19 ^q	—	7 ^o
33	—	—	—	—	59	17	7	11 ⁸	19 ^k	—
39	19	13 ^m	23	29 ⁿ	—	7 ^f	17	—	—	—
41	7 ^k	—	—	—	—	43	—	7	11 ^t	191
47	—	37	19 ²	—	—	—	7 ^{fg}	113	29 ^m	—
51	37	11 ^o	13	7 ⁱ	—	—	—	—	17	—
53	13 ^s	—	—	—	11 ^o	7	211	—	—	79
57	167	—	7	101	—	—	—	23 ^l	—	7 ^{gb}
59	—	29	11 ²	31	7	19 ^k	—	13	—	199
63	—	7 ^k	—	13 ^r	97	101	19	—	7 ^f	—
69	7 ^l	—	—	137	31	—	11 ²	7 ^u	73	—
71	17	199	7	—	—	—	103	127	13 ⁱ	7 ^{2f}
77	19	7 ^b	13	61	—	29	179	11 ^s	7 ³	—
81	—	19	11 ^p	—	53	7 ^o	23 ²	—	—	—
83	7	79	17	—	23 ^p	11	197	7 ²	41	13
87	11 ^k	—	—	—	7 ^l	13 ^s	—	—	43	47
89	—	—	109	11 ^{hg}	—	71	7 ^{2m}	—	103	37
93	—	127	—	7	19	73	—	83	37	11
99	97	—	7 ^x	—	—	53	13	11 ^m	—	7

β	451	454	457	460	463	466	469	472	475	478
51	163	7 ^p	—	—	—	11	29	—	7	109
57	7	13 ¹	—	11 ^r	151	13 ⁿ	—	7 ^p	19	—
61	—	13 ²	67	—	7 ⁿ	29	151	167	199	11 ⁱ
63	19	11	—	73	71	—	7	151	—	23
67	31 ²	19	—	7	199	23	67	11	13	151
69	17	41	37	23	89	7 ^s	13	—	—	—
73	199	37	7 ^g	—	79	11	107	41	113	7 ²
79	—	7 ^{w2}	—	11 ^s	19	—	109	—	7 ²	13 ^l
81	—	—	17	7 ^l	—	—	11	13	—	—
87	73	13	7 ^m	17	11	—	19	—	23	7
91	—	—	29	—	23	—	7 ¹	19 ²	—	83
93	43	7 ^u	11 ^k	—	17	53	—	—	7 ^g	47
97	—	—	41	31	13 ^p	7 ²	—	—	11	211
99	7 ^f	173	13 ²	—	—	17 ^o	43	7 ^l	—	19

E

48000

TAB. I. DIVISORES

α	480	483	486	489	492	495	498	501	504	507
1	23	11	7 ^r	79	—	59	—	—	13	7
7	61	7 ^u	13	—	—	31	—	89	7 ⁱ	—
11	41	—	—	59	—	7 ^f	—	—	—	17 ⁱ
13	7 ⁱ	—	173	41	29	67	109	7	11	13 ^q
17	—	19	61	11	7 ^x	13 ²	31	23	—	41
19	31	211	—	13 ^r	83	23	7 ^f	—	127	67
23	—	11 ^k	—	7 ^l	—	—	—	—	—	—
29	—	31	7	113	19	—	13	—	211	7
31	43	17	11	167	7 ^g	—	—	—	29 ⁿ	97
37	11 ²	—	17	7	53	—	19 ^p	181	31	113
41	7	—	127	109	41	107	11 ^k	7 ^{ig}	—	—
43	107	29	7	17	23	13 ⁿ	—	41	73	7 ^f
47	23	13	—	—	11 ³	—	7	—	61	31
49	—	7	—	31	17	—	79	11 ^q	7	19
53	29	—	11	—	—	7	—	—	13	—
59	11 ^b	37	13 ⁱ	173	7 ^m	—	73	—	—	193
61	13	137	—	11	—	29	7 ^b	103	—	23
67	71	11	41	23	19	7 ^w	47	13 ^b	109	—
71	53	—	7 ^b	13	29	19	—	11	41	7
73	—	13 ^t	—	—	7	89	53	131	17	—
77	131	7	—	17 ^p	—	11	—	—	7	—
79	—	101	—	7	—	43	31	19 ²	11 ^g	17 ^l
83	7	—	89	11 ^t	13 ^b	179	83	7 ^u	19	43
89	19	11 ^r	181	—	23	17	7	31	29	—
91	—	7 ^m	23 ^l	—	11	101	—	53	7	13
97	7	—	11 ⁱ	13	—	—	41	7 ^v	—	79

β	481	484	487	490	493	496	499	502	505	508
1	103	29	31	19	7	193	139	17	11	37
3	11	97	113	—	47	—	7	61	—	101
7	73	—	53	7	—	113	11 ^g	—	17	23 ^q
9	—	—	67	—	13	7 ⁱ	29	23 ⁿ	53	11 ^m
13	13	—	7	23	11	—	19 ⁿ	149	—	7 ^{2b}
19	—	7	11 ^p	—	149	29 ²	—	13	7 ²	89
21	—	41	83	7 ^q	31 ⁿ	11 ^g	—	—	19	—
27	17 ⁱ	79	7	11	107	—	—	—	—	7 ^r
31	—	19	—	—	—	31	7 ²	—	13 ³	11
33	127	7 ^{fb}	—	—	—	—	13 ^k	191	7	—
37	37	—	13 ^k	—	103	7 ²	—	11	97	29
39	7 ^{k2}	59	17 ^q	19 ^l	—	—	—	7	—	—
43	31	193	79	—	7 ²ⁱ	11	—	47	—	13
49	89	—	29 ^o	7 ^{3f}	61	131	199	109	—	—

NUMERORUM.

35

<i>v</i>	482	485	488	491	494	497	500	503	506	509
5	17 ^p	78 ²	37	—	127	23	31	11 ^b	7	109
9	7 ^v	179	—	—	—	11	43	7	13 ^b	—
11	37	139	7 ⁱ	67	—	—	13	—	11 ^p	7 ²
17	13	7 ^l	—	—	—	83	11	67	7 ²	59
21	—	11 ²	—	—	73	7	—	—	223	13
23	7 ^y	—	—	—	11	19	—	7 ^{2g}	23 ^m	—
27	29	—	157	13	7 ^k	—	19	59	—	127
29	17	13	11 ^k	73	—	223	7 ²	—	197	—
33	139	—	47	7	—	41	—	—	11	31 ²
39	—	—	7	—	13	—	11	71	79	7 ⁱ
41	19	—	13 ^{2b}	157	7 ²	—	163	—	89	11 ²
47	—	43	—	7 ^{2b}	197	—	—	11 ^k	—	13
51	7 ^t	47	11	23	—	13 ^p	—	7	—	—
53	73	23	7 ²	13 ⁱ	17	11	—	43	37 ³	7 ^l
57	11 ^o	59	—	—	19 ²	—	7	37	179	—
59	—	7 ²	—	11 ^o	—	17	113	—	7	131
63	17 ²	—	131	211	—	7	13	—	29	11 ^o
69	13 ^q	17	—	—	7 ⁿ	157	—	11 ⁱ	23	—
71	—	—	—	—	61	71	7 ^k	17	—	—
77	23	31	37	—	—	78	—	—	11 ^b	19
81	—	13 ⁿ	7	11 ^b	—	67	61	83	59	7
83	53	19	—	137	7	—	11 ^l	—	—	17
87	109	7 ^f	19 ^m	101	17 ^o	—	—	—	7 ^g	67
89	43	—	—	7	11 ²	—	13	41	173	—
93	7	—	13	—	43	17 ^l	—	7 ^k	163	—
99	—	23	107	—	—	19	7 ^b	101	11 ²	13

<i>8</i>	481	481	487	490	493	496	499	502	505	508
51	179	13	—	101	17	7 ^o	11 ⁱ	31	—	11
57	—	47	—	—	7 ^f	17 ^k	—	29	13	—
61	17	7 ^{2k}	—	71	13	53	47	—	7 ^m	81
63	—	—	11 ^{2g}	7 ^p	—	—	17	—	59	19
67	7 ²	17	—	139	—	—	29	7 ^p	11	—
69	11 ^l	19	7	—	—	—	107	17	61	78 ²
73	67	—	17 ⁱ	31	97	13	7 ^{f2}	—	103	—
79	—	—	—	17	11 ^u	7 ^q	23 ^o	137	37	83
81	7	—	—	—	19 ^k	—	151	7 ^f	—	17 ^o
87	—	—	—	191	13 ^l	11	—	7 ⁿ	—	51
91	11 ^g	—	97	7	—	17 ⁿ	—	—	—	—
93	—	71	59	11	—	7 ^m	—	19	—	—
97	—	—	7	29	47	—	17 ²	13 ^r	19	7 ^f
99	157	11	—	37	7	13	—	179	—	23

E ii

51000

<i>a</i>	510	513	516	519	522	525	528	531	534	537
1	—	29 ²	11	17 ^p	—	—	7 ⁱ	—	—	83
7	11	—	—	—	17 ⁿ	7 ^g	—	23	—	43
11	29	13	7 ^w	23 ⁿ	109	—	11	173	—	7
13	139	23 ²	—	—	7	17	—	—	31	11 ⁱ
17	17	7	7 ⁱ	195	11 ^q	—	—	—	7 ^g	—
19	163	19 ⁿ	4 ⁱ	7	79	29	13 ^b	11 ²	—	—
23	7 ⁿ	17	11 ⁱ	137	—	53	101	7	41	31
29	11	—	17	—	29	—	7	—	23 ²	13
31	—	7	—	11	19	131	23	13 ^t	7 ^b	—
37	7 ^k	11 ^g	—	167	—	107	—	7	—	17 ^l
41	43	—	113	—	7 ^b	—	53	11	—	61
43	—	—	43	127	89	—	7	19	13	223
47	—	—	—	7 ^o	13	11 ^b	43	—	19 ^l	71
49	7 ⁱ	—	13 ^l	—	—	7	41	—	11 ^p	59
53	19	89	7 ^q	11	—	—	17	23	—	7 ²
59	—	7 ^{jk}	—	223	—	13 ²	—	17 ^r	7 ²	—
61	—	—	19	7 ^g	11	—	—	—	193	37
67	223	31	7 ^f	157	—	—	29	79	127	7
71	—	47	163	—	167	—	7 ^{2g}	—	11	17
73	11	7 ^o	—	—	13	19	37	—	7	—
77	13	83	31	—	61	7 ^{2l}	11 ²ⁱ	41	53	—
79	7	191	—	59	23	—	—	7 ^v	—	11
83	23	—	—	227	7 ^{2f}	—	—	13	79	—
89	47	13 ^s	11 ⁿ	7 ²	—	43	—	—	89	19 ²
91	19	17	—	—	—	7 ^f	227	43	149	—
97	37	103	17	11 ^l	7 ^m	149	13 ²	—	61	23

<i>B</i>	511	514	517	520	523	526	529	532	535	538
1	137	7 ²	13 ^o	149	—	23	—	—	7	11 ^u
3	13	11	149	7 ^{hi}	193	41	—	83	—	173
7	7 ⁱ	—	29	131	19	31	191	7 ^f	—	13
9	—	101	7 ^y	—	17 ²	—	157	13	73	7
13	79	—	—	13	—	11	7	127	59	—
19	17 ^m	—	—	11	113	7	—	19	109	—
21	7 ^u	—	—	—	—	101	11 ^b	7	13 ^k	107
27	29 ^o	—	13 ^k	—	11 ^u	—	7	17 ^m	—	19
31	—	—	17 ²	7	43	—	41	—	199	—
33	—	19	11	61	59	7 ^w	43	—	17 ^q	13 ^o
37	—	—	7 ⁱ	17	199	13	—	139	11 ^m	7
39	11	—	31	13	7	—	167	—	37	17
43	199	7	59	71	17	61	11	37	7	23
49	7	—	—	23 ^m	11	17 ⁱ	13	7	—	—

NUMERORUM.

37

γ - 512 515 518 521 524 527 530 533 536 539

3	—	—	—	—	13 ^l	7	—	15 ⁱ	11 ²	19
9	41	19	103	107	7	—	11 ^t	—	—	31 ⁿ
11	83	—	197	31 ^o	17	—	7	89	—	118 ²
17	—	—	—	13 ⁱ	23 ^p	7 ^b	—	11 ⁿ	—	—
21	17 ^k	—	7 ^f	—	19 ^m	—	37	71	29 ^p	7
23	181	67	29	47	7	11	17	—	—	—
27	11	7 ^b	—	—	103	—	13	—	7 ^q	—
29	—	227	—	7 ^f	13 ⁿ	67	19	17	—	199
33	7 ^g	29	17	37	—	—	181	7 ⁱ	—	11
39	—	—	—	17	41	23	7	11 ^g	—	—
41	—	7 ⁿ	47	23	229	13	29 ^m	41	7 ^x	17 ^l
47	7	19	139	—	179	—	—	7	11	73
51	53	—	19	11 ²	7 ^s	17 ^l	—	31	13	—
53	107	31	—	—	—	7 ⁱ	7 ^{fg}	—	—	163
57	—	11 ^p	13	7	—	—	17	229	—	79
59	13	47	—	43	11 ⁱ	7	97	—	23	—
63	—	—	7 ^m	7	23	19	47	17 ^p	103	7 ^g
69	167	7 ^r	—	13	71	—	—	83	7 ^{fb}	29
71	11 ^s	13	—	7 ^l	137	113	73	19 ^r	191	31
77	47	—	7	—	97	89	—	—	13	7 ^f
81	19	—	29	—	11 ^g	47	7	—	—	23
83	—	7	13 ²	—	31	—	109	11 ^k	7	37
87	—	79	11 ^r	23	73	7	—	197	37	—
89	7 ^b	23	19	—	—	11	—	7 ^l	53	13
93	11	—	—	19 ^o	7	13 ^m	—	107	—	—
99	43	—	—	7	47	37	29	67	—	11

β 511 514 517 520 523 256 529 532 535 538

51	—	23	7	—	13	37	—	11 ^q	—	7 ⁱ
57	—	7	73	—	41	11	—	19	7 ²	—
61	11	—	191	79	—	7	211	13 ^b	19	—
63	7	53	37	11	—	13	—	7 ²	29	61
67	19	13 ⁿ	—	—	7	—	—	—	17 ^k	11 ^s
69	—	11	—	—	—	31	7 ^{2k}	—	—	103
73	73	—	23	7 ^p	83	—	—	11 ^l	13 ²	17
79	61	—	7 ^g	19	—	11	31	—	131	7 ^p
81	13 ^m	—	53	—	7 ²	139	—	—	11	—
87	17	—	—	7 ²	—	19 ^q	11	13	41	—
91	7 ^v	11 ^m	67	15	—	—	19	7 ^k	—	—
93	—	13 ^b	7 ⁱ	113	11 ²	23 ^l	197	137	—	7
97	—	23	—	59	151	—	—	7 ⁿ	223	—
99	—	7 ²	11 ^b	53	61	151	—	—	—	7 ^g

54000.

TAB. I. DIVISORES

<i>a</i>	540	543	546	549	552	555	558	561	564	567
1	—	13	—	7 ^k	—	—	4 ^l	—	—	—
7	53	11	7 ^l	—	—	47	—	19	13	7
11	—	—	97	43	13 ^m	—	7 ^j	11	19	—
13	—	7	13	89	—	43	—	—	7	—
17	19	29	—	—	—	7 ^f	—	17	—	43
19	7	—	193	—	—	59	—	7	11 ^k	13
23	89	—	—	11	7 ⁴	13	—	—	17	13 ⁱ
29	97	11 ²	—	7 ²ⁱ	—	—	—	37 ^{2b}	73	17 ^q
31	71	—	—	167	11	7	31	—	—	—
37	—	67	11	137	7 ^g	19 ⁿ	—	73	—	—
41	13	7 ²	101	—	37	—	19	31	7 ^f	23
43	11 ^b	31	53	7 ^q	—	67	—	23	—	179
47	7 ²	—	—	23	101	—	11	7 ^g	47	—
49	—	17 ^k	7 ⁿ	—	—	13	—	—	19	7 ^f
53	191	13 ⁿ	31 ^o	179	11	73	7 ^x	233	—	191
59	—	19	11	—	—	7	83	89	13 ^p	211
61	7	—	47	17 ^r	73	11	13	7 ^v	31	31
67	13	—	—	11 ⁱ	17	181	7 ^k	—	—	—
71	139	—	23	7	19	61	—	—	149	11 ^g
73	23	11	—	—	31	7 ^b	59	13 ^l	—	—
77	17	—	7 ^w	13	167	149	71	11	—	7
79	41	13 ^q	—	—	7 ^r	—	17 ⁱ	—	—	—
83	—	7 ^b	149	—	59	11 ^m	29 ^o	19	7	—
89	7	137	17	11	13	—	—	7 ^k	—	109
91	—	109	7 ^g	127	—	23	11	83	17	7 ²ⁱ
97	47	7 ⁱ	83	43	11 ²	53	—	—	7 ²	13 ^b
<i>b</i>	541	544	547	550	553	556	559	562	565	568
1	—	—	19	—	17	78 ²	—	43	—	79
3	7 ^s	—	11	13	29	—	—	7 ^{2m}	—	43
7	61	41	227	67	7	17	37	—	11 ²	—
9	11	—	—	—	19 ^o	—	7 ⁱ	—	—	—
13	53	—	—	7 ^l	—	19	11 ^{gh}	67	31	—
19	13 ^k	—	7	37	11 ^q	—	199	17	—	7
21	—	—	—	—	7 ²	—	—	11 ⁱ	29	—
27	113 ⁱ	37	—	7 ²	61	11 ^g	—	59	—	—
31	7 ^{fi}	13 ^r	229	113	—	—	—	7 ^l	—	17
33	—	29	7 ²	11	—	—	—	53	—	7 ^k
37	43	—	127	47	—	23 ^o	7 ^t	—	13	11
39	—	7 ^{2f}	19 ^p	23	—	—	13 ²	—	7 ^o	113
43	29	—	13	19	—	7	43	11	—	—
49	173	—	53	—	7	11	—	—	193	13

NUMERORUM.

39

γ	542	545	548	551	554	557	560	563	566	569
3	67	—	7	—	17	53	—	13 ^t	23 ²	7 ^f
9	151	7 ^g	23	—	67	17 ^l	—	11	7	—
11	23	19 ²	59	7	—	—	79	—	—	—
17	—	—	7 ^o	—	151	—	13 ^m	199	11	7 ^q
21	59	—	13	11	157	—	7 ^r	17	41	—
25	15 ^p	7	73	199	19	103	11 ²	151	7	—
27	11	11	109	—	43	7 ⁱ	179	23 ^m	17	13 ^l
29	7 ^t	31	—	29	11	23	43	7 ^g	—	—
33	193	23	—	13	7	—	137	—	—	17 ²
39	73	—	29 ^t	7	—	139	—	53	11 ⁱ	97
41	11	—	173	67	—	7	—	103	13	—
47	17	—	13	—	7z ²	107	41	29 ²	37	11 ^m
51	—	7	—	131	11 ^v	197	23	37	7	—
53	227	17	19	7	23	127	—	11 ^q	181	13 ²
57	7 ^k	89	11	19	—	13	29	7 ^y	53	—
59	29	—	7 ^b	13	31	11 ⁿ	61	—	—	7 ^x
63	11	—	83	—	37	—	7	157	—	—
69	—	197	—	43	—	7 ^m	13 ⁱ	—	61	11
71	7	11 ³	37	—	13 ^b	43	47	7	—	23
77	—	—	—	23	29	17 ²	7	—	19 ²	227
81	17 ^m	—	—	7	109	11 ²	—	13	—	19
83	19	—	71	139	113	7 ^g	17	—	11	—
87	—	13 ^{2b}	7	11 ^l	—	—	—	113	—	7 ²
89	233	7 ⁹	131	229	7	47	11	17 ^m	83	—
93	—	7 ^f	17	97	211	—	—	—	7 ^{2g}	—
99	7	71	13 ^o	17 ²	19 ^k	—	—	7 ²	31 ²	—

β	541	544	547	550	553	556	559	562	565	568
51	—	17	—	—	—	19 ^l	7	13	11 ^r	139
57	31	13 ^s	17	—	157	7	11	101	23	—
61	41	11	7	—	23 ^l	—	107	127	163	7
63	—	107	23	17 ^o	7 ^f	—	191	—	13 ⁱ	101
67	—	7 ^m	—	53	13	—	—	—	7	19 ^o
69	19	—	11 ^g	7	17	179	97	—	—	29 ⁿ
73	7 ^v	19 ^q	—	—	—	—	223	7	11 ⁿ	—
79	17	157	—	—	79	13	7 ^f	167	29	23
81	—	7 ^p	29	13 ⁱ	—	—	17 ⁿ	23	7 ^s	11
87	7	23 ²	—	31	97	233	—	7 ^{fb}	71	163
91	47	29	11 ^b	89	7 ^o	—	13 ^s	181	—	—
93	—	—	157	37	13	11 ^t	7 ⁱ	41	17	—
97	11 ^g	—	37	7 ^b	31	—	—	19	—	—
99	83	—	—	11	—	7 ^w	29	—	—	17

57000

TAB. I. DIVISORES

<i>n</i>	570	573	576	579	882	585	588	591	594	597
1	7 ^b	—	—	—	11 ^{2g}	19	127	7	191	227
7	109	17	11	79	—	41	7 ^m	—	—	—
11	47	223	53	7	—	—	23	13	11 ²	29 ²
13	11 ^v	37	17	29	23	7 ^g	103	—	19 ^r	211
17	23 ⁿ	13	7	—	—	163	11	31	—	7 ⁱ
19	19	31 ^p	157	17	7	139	131	—	—	11 ^t
23	127	7 ⁱ	29	—	11 ^u	43	59	—	7 ^g	—
29	7	—	11 ^g ²	53	—	107	89	7	67	—
31	13 ^o	—	7	19	—	11 ^h	—	29	103	7 ^{2k}
37	—	7	—	11 ^k	—	—	17	13	7 ²	31 ^o
41	—	17	—	13	139	7	29	—	—	11
43	7 ^l	11 ^g	59	—	—	—	19 ²	7 ^{2b}	—	—
47	—	—	17	—	7 ^r	127	83	11 ⁱ	—	—
49	89	—	—	167	31	—	7 ²	—	13 ^b	149
53	59	83	—	7 ^b	13	11	229	149	—	—
59	—	41	7	11 ²	17 ^k	31	71	—	37	7
61	43	19	23 ²	149	7 ^{2l}	157	11	67	97	13
67	149	—	—	7 ^{1g}	11	—	37 ²	—	—	59
71	7 ^m	103	101	29	—	37	17	7 ^x	—	—
73	—	—	7 ^{2f}	—	19	—	113	47	—	7
77	—	181	137	—	101	19	7 ^g	17 ^s	11	23 ²
79	11	7 ²	—	37	13	—	97	23 ^m	7 ^l	—
83	13	—	37	23	167	7	11 ^r	—	17	191
89	—	—	—	103	7 ^f	41	—	13 ^l	19 ^m	17
91	37	29	31	—	71	13	7 ^q	11	41	—
97	—	—	—	59	97	7 ^f	—	—	—	—

<i>n</i>	571	574	577	580	583	586	589	592	595	598
1	11 ^l	61	7	31	173	—	—	53	13 ^k	7
3	17	137	19	11	7	—	13 ^k	73	157	79
7	—	7 ^s	13 ^k	19 ^p	199	103	—	—	7	11
9	13 ^k	11 ^b	—	7	—	29 ^p	—	—	—	—
13	7 ^o	—	—	—	—	—	—	7 ^f	—	13 ^p
19	—	67	—	13	29	11 ^w	7 ⁱ	—	53	41
21	239	7 ^g	197	17	—	31 ²	—	—	7 ^f	163
27	7	—	—	—	17 ^q	23	11 ²	7	13 ⁱ	29
31	—	11 ^k	—	—	7 ^g	—	31	61	59	19 ^q
33	19 ^m	79	13	131	11	17	7	—	37	—
37	17	19	—	7	—	191	—	37	29	53
39	—	71	11 ^l	127	227	7	17	—	—	13
43	—	17 ^m	7 ^w	—	41	13 ²	—	—	11	7 ^y
49	—	7 ^l	17 ^p	—	19 ⁿ	223	11 ^k	179	7 ^q	97

NUMERORUM.

41

<i>γ</i>	572	575	578	581	584	587	590	593	596	599
3	—	—	—	97	—	47	7	31	19	37
9	19	131	—	—	13	7	—	127	11	139
11	7 ^f	17 ²	13	—	—	—	—	7 ⁿ	—	181
17	29	113	17 ⁱ	89	—	71	7	23	—	118
21	—	97	67	71 ^a	119	13	—	157	—	—
23	—	23 ^o	53	13 ^b	37	7	—	11	109	31
27	89	—	7 ^f	37	—	—	67	41	—	7 ²
29	151	—	—	—	7 ^b	111	—	79	—	—
33	11 ⁱ	7	151	61	71	—	13 ⁱ	—	7 ^a	73
39	78 ^b	163	—	47	—	151	43	7 ⁱ	23	11
41	—	11	7	53	—	—	17 ^k	—	19 ^p	7
47	19 ^k	7	—	—	211	13	137	17	7	151
51	—	13 ⁱ	17 ^o	—	—	7 ^{2f}	—	—	—	—
53	7	67	—	—	—	41	—	7 ^t	11 ^{2b}	167
57	31	—	47	11 ^b	7 ²	—	73	—	13 ²	—
59	—	—	—	19	53	67	7 ^{fg}	—	—	17
63	173	11	13	7 ²	17 ⁱ	—	—	23 ^l	—	61
69	—	23	7 ²	—	59	17	—	—	—	78
71	—	—	11	—	7	—	19	13	—	—
77	11 ^o	13 ^p	31	7	—	53	—	—	83	37
81	7 ⁱ	71	—	73	—	43	11 ^o	7 ^b	37	—
83	—	89	7	83	233	29	—	43	13	7 ^{fi}
87	—	—	107	31	118	—	7 ^k	—	17	223
89	59	7 ⁱ	13 ^t	—	23	—	37	11	7	239
93	23 ^q	—	11 ⁱ	—	29	7 ⁿ	—	—	—	17
99	11	239	—	—	7 ^t	13	113	—	—	—

<i>β</i>	571	574	577	580	583	586	589	592	595	598
51	67	73	—	7	23 ^p	89	167	193	17 ^m	11
57	61	—	7 ⁿ	—	13 ^u	—	19 ^l	11	—	7 ^b
61	13	37	11 ^s	—	17	—	7	19	—	31
63	—	7	47	31	—	11	—	—	7 ^u	—
67	11	—	61	—	—	7 ^{b2}	—	13 ^q	—	131
69	7	101	41	11	—	13	109	7	71	19 ^k
73	—	13	—	—	7 ^m	23	17	—	41	11
79	—	229	19	7	—	—	—	11 ^b	13	—
81	211	47	—	241	79	7 ^y	13 ²	—	—	233
87	13 ^r	—	—	29	7 ⁱ	—	61	101	11	—
91	—	7 ^p	—	11	—	19	—	211	7	13 ^b
93	—	—	—	7 ^p	—	—	11 ^m	13	23	101
97	7	11	29	13 ^o	23	79	—	7 ^p	61	89
99	47	13	7 ^k	—	11	—	41	19	107	7 ^p

F

6CCCO

TAB. I. DIVISORES

α	600	603	606	609	612	615	618	621	624	627
1	29	47	—	—	7 ²	11	23	13 ^b	—	—
7	23	13	—	7 ^{2f}	97	—	19	173	17	73
11	7	41	—	17	—	—	113	7i	139	11
13	—	11	7 ²	—	41	157	—	179	13	7b ²
17	—	—	—	—	13 ^b	227	7	11	—	59
19	47	7 ²	13	—	29	—	—	—	7 ⁿ	19
23	193	179	—	—	—	7fb	211	23 ⁿ	—	—
29	—	23 ^p	19	11 ^l	7	13	17	—	163	149
31	173	—	—	13 ^p	—	37	7f ²	—	149	—
37	—	—	—	—	11i	7s	—	—	29	43
41	—	83	7	149	47	19 ^o	13 ^u	—	17	7
43	97	—	11 ⁿ	—	7 ^g	—	—	—	41	—
47	13 ^m	7 ⁿ	—	59	73	—	23	29	7f	17
49	11 ^r	29	—	7	23	61	127	19	197	131
53	7 ^k	—	131	—	—	—	11	7 ^g	19 ²	—
59	19 ^l	13	—	47	11	—	7	61	—	97
61	17	7	—	—	—	—	—	11	7	—
67	7	17 ^r	19 ^m	41	197	11 ^l	13	7 ^y	—	23
71	11 ^p	73	13 ²	19	7	23	—	—	179	41
73	13	—	17 ^p	11 ^k	71	67	7.	79	—	—
77	—	173	47	7 ^m	29	139	43	97	—	11 ^g
79	73	11 ²	—	17 ²	233	7i	—	13	43	67
83	—	—	7	13	—	—	19	11	—	7
89	—	7	—	71	167	11 ²	199	—	7 ^x	37
91	—	131	137	7	—	17	59	—	11 ^{gi}	—
97	19	—	7 ^{gk}	181	—	31	11 ^b	37 ^o	—	7

β	601	604	607	610	613	616	619	622	625	628
1	—	11b ²	101	—	59	229	7 ⁿ	—	—	—
3	—	7	—	53	11	—	103	17	7	13
7	—	29	17	—	101	7 ^g	31	—	—	181
9	7 ^m	195	11	13 ²ⁱ	37	—	—	7	17	107
13	47	—	109	17 ⁿ	7i	—	101	—	11	23
19	79	31	—	7 ^k	17	43	11 ^g	—	101	—
21	59	23 ⁿ	41	139	13 ^r	7	19	43	103	11
27	—	—	—	—	7	—	—	11	31	—
31	157	7 ^z	11	—	—	—	17	13	7	83
33	—	223	—	7	—	11 ^g	—	—	—	19
37	7 ²	13	—	67	83	—	241	7 ^b	23	31
39	—	19	7	11 ^m	—	53	23	109	—	7 ^q
43	137	—	19 ^k	—	—	—	7	67	13 ^b	11 ^l
49	—	—	13	41	31	7	—	11	—	17

NUMERORUM.

43

γ	602	605	608	611	614	617	620	623	626	629
3	11 ^g	17	41	7 ^l	—	—	—	—	—	—
9	—	—	7 ^{2b}	53	—	23	59	13	137	7 ^{fi}
11	19	11	—	23	7 ^m	13 ^q	—	—	17 ^l	53
17	—	73	61	7	—	—	—	101	—	17
21	7 ²	—	—	—	17	11 ^m	109	7 ^l	13	—
23	—	29	7	19	239	—	13 ²	—	11	7 ^z
27	229	—	13	11	19 ^r	17	7	—	—	—
29	13 ^o	7	59	—	47	—	11	157	7 ^k	—
33	29 ^m	11	127	113	23	7	17 ^o	83	—	13 ^q
39	59	—	83	13	7 ^u	107	—	17 ⁱ	—	—
41	107	13	11	—	—	29	7	31	37	113
47	11	19 ⁱ	71	47	43	7	—	—	13 ^t	19
51	—	151	7	—	13 ^l	—	11	—	31 ^p	7 ^{bk}
53	89	19	13 ^m	—	7	37	—	23	—	11 ^s
57	—	7 ^o	19	23	11 ⁿ	—	—	127	—	157
59	—	23	—	7	41	151	229	11	—	13 ^l
63	7	71	11 ²	31	—	13	53	7 ^s	223	79
69	11	37	—	—	—	19	7	47	29	—
71	—	7 ^b	29	11 ^u	—	223	—	97	7 ²	—
77	7 ^x	11	17	131	13	163	23	7 ²ⁱ	233	71
81	13	29	23	193	7	—	—	11 ^r	19	—
83	23	47	107	17 ^s	—	31	7 ³	—	—	—
87	19 ²	43	—	7	—	11 ^o	47	13	—	—
89	—	—	—	43	17	7 ^{2g}	29	89	11 ^o	—
93	—	13 ^s	7	11	—	61	31	43	71	7
99	17	7 ^f	—	19	89	29	—	23	78 ²	73

β	601	604	607	610	613	616	619	622	625	628
51	7 ^g	61	79	—	19	—	41	7	71	—
57	43	—	—	—	19	—	7 ^r	13	11 ⁱ	239
61	—	103	—	7 ^{fg}	43	197	—	23	73	—
63	17	13	—	227	—	7 ^k	11 ^p	19 ^l	—	37
67	—	11 ^k	7	79	109	—	—	71	19 ⁿ	7 ²
69	—	17	67	173	7 ^f	83	31	73	13	—
73	19	7 ^r	—	157	13	—	29	—	7 ²	—
79	7	197	—	103	—	37	—	7 ^{2m}	11	227
81	11	31	7 ⁱ	17	—	—	—	61	—	7 ^g
87	139	7	89	13 ⁿ	17 ^k	—	—	199	7	11
91	23	241	31 ⁿ	—	11	7 ²	—	167	—	61
93	7	—	—	199	29 ²	17 ⁱ	47	7 ^f	53	109
97	17	—	11	107	7 ³	103	13 ⁱ	—	—	—
99	37	101	163	—	13	11 ^v	7 ^b	—	59	51

F ii

63000

α	630	633	636	639	642	645	648	651	654	657
1	²⁵ 1	7	—	—	19 ^m	53	11 ^p	—	7	—
7	7	29 ⁿ	—	—	11 ^g	²⁵ 1	229	7 ^v	—	—
11	13 ⁿ	—	—	79	7	31	—	—	149	23
13	61	—	11	—	157	—	7 ^q	19 ^k	—	—
17	29 ^o	—	—	7 ^k	—	149	—	13	11 ⁱ	—
19	11 ^b	23	113	41	149	7 ^g	53	—	—	—
23	19 ^m	13	7 ^t	97	—	11 [;]	11 ^v	—	—	7 ^o
29	—	7 ^y	—	—	11	173	241	—	7 ^g	—
31	—	—	17 ⁱ	7	—	47	13	11 ^m	59	—
37	13 ²	—	7	17	—	11	23	53	—	7
41	11 ²	97	23	43	227	233	7 ^s	—	31	13 ²
43	23	7	31	11	17	19 ^p	61	13	7	29
47	67	—	—	13	41	7	19	—	—	11 ^p
49	7	11 ^g	—	—	47	17	—	7 ^o	—	37
53	13 ²	—	53	31	7 ^u	—	—	11	29 ⁿ	47
59	—	17	—	7	13	11	79	23	67	19
61	19	—	13 ^s	167	179	7 ^k	37	17	11 ²	—
67	—	—	—	47	7	—	11	—	17	13
71	59	7 ^f	—	17 ^r	—	13	—	—	7 ^q	89
73	—	127	41	7 ^{gi}	11	31	29	—	233	17 ^r
77	7	—	37	—	17 ⁱ	—	—	7	41	—
79	—	61	7 ^f	137	—	—	—	—	—	7
83	199	241	43	109	—	17 ^l	7 ^{gk}	—	11	157
89	13 ^k	—	—	61	53	7	11 ^b	19 ^q	43	—
91	7	—	—	89	239	—	—	7 ^u	79	11
97	—	—	—	—	113	13	7 ^w	11	—	19

β	631	634	637	640	643	646	649	652	655	658
1	89	13	11	7 ^o	—	—	—	113	17	29
3	—	19 ^q	—	29	—	7 ^f	41	—	31	23
7	11	163	7 ⁱ	—	107	23 ^r	47	197	13	7 ^{2b}
9	223	—	—	11 ^{2k}	7	—	13	61	109	—
13	—	7	13 ³	—	73	—	139	—	7 ³	11 ^m
19	7 ^v	—	—	—	—	19 ²	—	7 ^{2fi}	—	13 ^t
21	17 ^q	—	7	73	131	—	—	13 ^l	—	7
27	—	7 ^{gb}	—	43	—	—	—	19	7 ^{fk}	—
31	—	137	101	11	23	7 ²	29	37 ^o	19	—
33	7 ^l	229	17 ^k	—	—	—	11	7	13 ^v	43
37	19	11 ^w	—	—	7 ^{2g}	109	—	89	—	—
39	103	—	13	17	11	37	7	—	—	—
43	233	—	—	7 ²	37 ²	127	101	53	—	—
49	—	67	7 ²	19	229	13	107	71	11 ^s	7 ^k

NUMERORUM.

45

γ	632	635	638	641	644	647	650	653	656	659
3	7	11 k	—	13	—	89	—	7 ⁱ	17 ²	59
9	31	41	—	—	29	—	7 ⁿ	—	—	17
11	—	7 ^p	11	61	41	163	—	241	7 ^{2g}	19
17	7 ^f	19	13	97	37	—	7 ^y	7 ^{2m}	—	29
21	191	—	19	37	7	61	11 k	83	211	—
23	17	139	—	—	23	59	7 ²	—	137	11 g
27	23	—	83	7	11	13 ²	—	—	29 ^m	—
29	53	17 ⁿ	29 ^m	13	19	7 ²	—	11	—	—
33	37	—	7 ^f	59	—	19	—	79	—	7
39	11	7 ^l	—	31	—	41	13	223	7	233
41	—	—	—	7 ^{3f}	13	101	193	19 ²	41	23 q
47	—	11 r	7 ²	23	17 ²	—	29	101	—	7
51	19	103	67	—	—	73	7	11 g	—	—
53	43	7 ²	—	—	—	13 ^b	—	—	7 ^y	101
57	17 ^t	13	—	—	43	7 ¹²	67	—	—	—
59	7 ²	—	19	83	73	31	17 ^p	7	11 q	71
63	41	17	—	11 i	7	—	—	163	13	—
69	151	11	13 ^{b2}	7 ^z	23	239	31	131	97	41
71	13 ^m	151	23	—	11	7 ⁱ	—	—	17	37
77	—	—	11	29	7 ^t	211	59	13 q	—	17
81	—	7 ^m	127	13	17	—	151	—	7 ^f	—
83	11 ²	13 [#]	193	7 ^r	—	—	37	151	19	—
87	7	—	29	—	59	17 ⁿ	11 ^t	7	—	19 k
89	19	—	7	—	—	67	—	23	13 ^m	7 ^f
93	167	19	181	23	11 ^{2g}	—	7 ^b	—	179	—
99	—	—	11 n	43	—	7	—	17	—	31

β	631	634	637	640	643	646	649	652	655	658
51	11	107	37	13 ²	7 ^l	17	—	23	—	—
57	137	23 ^m	103	7	139	19 ^o	17	—	—	11
61	7 ²	17	—	29 ^q	11	—	13 ⁱ	7	53	67
63	83	—	7	—	13	—	167	11 ^b	—	7 ^A
67	13 ^p	—	11 ^{2b}	—	191	—	7	—	173	—
69	181	7	43	79	59	11	—	—	7 ^{hi}	199
73	11	—	—	17	—	7	43	13	23	19
79	—	13 ⁱ	23 ^q	139	7 ^b	—	181	29	—	11 r
81	23 ^o	11 ^l	—	—	—	71	7	97	—	—
87	179	—	227	19	31 ²	7	13	—	—	41
91	29	173	78	—	19	11	17	109	107	7
93	13	—	—	107	7	—	103	—	11 [#]	13 ^t
97	—	7 ^q	131	11	71	31	—	17 ^k	7	13 ⁿ
99	—	—	—	7	—	23 ^l	11 ⁱ	13	—	—

66000

α	660	663	666	669	672	675	678	681	684	687
1	13	—	—	149	17 ^s	7	—	11 ^o	73	23 ^l
7	149	61	43	23	7	11 ⁱ	—	13 ³	67	127
11	11 ^b	7	59	13	—	—	19 ^p	—	7 ^l	—
13	251	13	29	7 ^f	—	181	17	—	37 ^p	—
17	7	17 ^q	—	61	—	107	73	7 ⁿ	31	11
19	107	11	7 ^m	—	—	251	—	17	13 ⁱ	7
23	103	29	17	—	13	—	7	11 ²	53	19
29	—	19	—	17 ^m	23 ⁿ	7 ^f	—	193	41	—
31	7	113	23	—	—	—	29	7	11	13 ^b
37	—	—	37	13 ⁱ	71	—	7 ^f	61	—	—
41	—	11 ⁿ	103	7 ^w	19	17 ^l	179	—	89	53
43	211	—	—	—	11	7	—	83	—	—
47	—	—	7	—	—	—	13 ^b	—	—	7 ^k
49	257	43	11 ^w	—	7 ^g	31	19	23	—	—
53	13	7	—	23 ^o	109	43	—	17 ⁱ	7 ^f	197
59	7	—	191	—	103	—	11 ^m	7 ^g	17	29
61	31	—	7 ^z	29	—	13	79	—	223	7 ^{fi}
67	—	7 ⁱ	163	167	137	—	—	11	7	—
71	—	31	11 ²ⁱ	193	—	7 ³	67	—	13 ^k	—
73	7	—	61	—	—	11	13 ^k	7	—	97
77	11	—	13 ^k	—	7 ²	—	103	79	—	—
79	13 ^{2b}	41	131	11	19	—	7	29	31 ^q	109
83	—	—	—	7 ²	61	19	—	41	—	118 ²
89	—	197	7 ²	13	—	—	29	11	—	7 ^m
91	29 ^p	13	17	31	7	257	—	19 ⁿ	—	—
97	157	67	—	7 ^b	173	23	43	47	11 ^g	89

β	661	664	667	670	673	676	679	682	685	688
1	7 ²ⁱ	23	—	11	13 ^m	—	—	7	—	107
3	—	—	7 ^g	—	17 ⁿ	67	11	241	61	7
7	—	11	41	37	—	—	7 ^z	—	—	83
9	—	7 ^r	19	113	11 ^l	17 ^o	59	—	7	13 ^u
13	17	—	—	19	83	7 ^g	113	—	131	—
19	37	17	137	29	7 ^s	—	23	—	11	—
21	11	127	—	—	23	19	7 ^m	17	—	—
27	89	181	53	97	13	7	—	—	17 ^l	11
31	13	—	7	17	11	—	—	31 ²	—	7
33	41	31	—	—	7	47	—	11	19	17
37	—	7	11	43	17 ²	239	41	13 ^l	7	19
39	19 ^s	29 ²	—	7 ^t	—	11 ^{2g}	—	—	—	23 ^o
43	7 ^f	13 ⁱ	31	—	—	17 ^k	—	7	—	43
49	29	—	—	—	—	61	7 ^b	139	13	11 ²

NUMERORUM.

γ 662 665 668 671 674 677 680 683 686 689

3	239	73	11	—	7	79	13	167	31	—
9	11 ^g	—	—	7	—	—	47	83	19 ^k	—
11	73	227	71	11	—	7 ^b	23	—	—	137
17	23	11	109	41	7	13	17	53	59	—
21	—	7 ^g ^b	—	—	—	241	251	11	7	41 ⁱ
23	47	—	19	7 ^p	191	—	—	17	163	157
27	7	71	17	19	—	11 ^q	59	7 ^p	13	—
29	103	—	7	—	—	89	13	—	11 ^b	7 ^p
33	107	—	13 ^r	11 ^b	—	—	7	23	—	29
39	—	11 ^k	89	—	17	7	19	37	—	13
41	7	—	—	—	11	—	—	7 ^g	83	71
47	31	13	11 ^s	83	—	37	7	41	19	—
51	97	61	—	7 ^r	37	—	17	—	11 ^x	19 ²
53	11 ⁱ	—	—	—	—	7	—	29	13	53
57	59	19 ^m	7	—	13	—	11 ^k	17	71	7
59	173	101	13 ⁿ	239	7 ^k	—	—	197	—	11
63	23 ^p	7 ⁿ	—	47	11	—	29	137	7 ^b	—
69	7	—	11	—	19 ^r	13 ²	43	7	—	17
71	—	—	7 ^o	13	109	11 ^t	—	—	43	7 ^s
77	191	7	—	11 ^m	—	—	19	101	7	23
81	79	139	47	—	—	7 ^k	13	19 ^s	173	11
83	7 ^b	11	—	23 ²	13 ^l	—	103	7	—	101
87	13	—	211	—	7 ^m	53	—	11	—	149
89	151	17	—	—	—	—	—	7 ^v	—	149
93	—	—	151	7 ^l	—	11	149	13	73	—
99	167	13 ^q	7 ⁱ	11 ^o	—	151	—	—	—	7

β 661 664 667 670 673 676 679 682 685 688

51	83	7 ^f	—	19	47	—	13	131	7 ²	31
57	7 ^g	—	241	—	193	29	—	7 ³	179	37
61	—	41	101	—	7	11	—	—	17 ⁿ	13
63	109	—	—	199	31 ^o	71	7 ⁱ	13 ^s	11 ^k	—
67	127	—	179	7 ^g	23 ^l	157	—	19	—	17
69	—	13	23	47	—	7 ²	11 ⁿ	233	191	61
73	—	11	7	—	89	31 ⁿ	101	67	47	7
79	—	7	43	—	13 ^v	—	—	—	7 ^A	—
81	17 ²	19	11 ^g	7 ² ⁿ	43	53	157	—	—	—
87	11 ²	17	7 ² ^l	73	79	113	—	23	107	7 ^g
91	—	—	—	23	—	13 ^o	7 ^f	47	113	—
93	37	7 ² ^k	17	13 ²	19	139	—	31	7 ^o	11
97	53	29	—	229	11 ²	—	7 ⁱ	97	163	—
99	7 ⁱ	—	67	17	—	—	53	7 ^f	181	—

TAB. I. DIVISORES

n	690	693	696	699	702	705	708	711	714	717
1	—	37	7 ^t	13 ⁱ	—	—	101	97	11	7
7	151	7	47	53	—	—	110	211	7 ^B	—
11	—	11	151	—	61	7 ²	13 ²	17 ^q	—	—
13	7	—	67	151	11 ^g	107	19	7	—	—
17	13	—	43	139	7 ²	151	23	19 ²	17	29
19	—	103	11	29	23 ^p	97	7 ^u	—	—	—
23	23	181	—	7 ²	—	109	—	13	11 ^p	17
29	—	13	7 ⁴	—	—	—	11 ^q	—	—	7
31	—	190	179	—	7 ^x	251	193	83	61	11
37	17 ^m	—	83	7 ^A	—	—	13	11 ^l	—	23
41	7 ²	—	11 ^g	—	—	23	—	7	199	—
43	13 ^q	17	7	23	19	11 ⁱ	—	—	—	7 ⁿ
47	11	31	257	113	199	19 ^q	7 ^l	—	37	13
49	29	7	17 ²	11	—	—	—	13 ²	7 ^s	157
53	199	223	—	13	163	7	—	—	—	11 ²
59	53	43	41	—	7	37	59	11	19	73
61	—	139	—	43	17	41	7 ^r	—	13 ^k	—
67	—	71	13 ^k	31 ⁿ	29	7 ^b	—	—	11 ^w	43
71	17 ²	—	7 ⁿ	11	—	—	131	—	—	7
73	—	173	19 ²	167	7	—	11 ^b	103	—	13
77	67	7 ^{fb}	—	19 ^l	31	13 ^t	—	109	7	—
79	37	—	59	7 ^g	11	163	—	17 ^r	—	179
83	7 ^v	—	17	47	67	—	73	7	—	23
89	59	—	227	17 ^k	—	—	78 ⁱ	257	11 ^w	—
91	11 ²	7 ^k	—	—	13	73	—	—	7 ²	170
97	7	29	—	—	—	227	31	7 ²	19 ^r	11 ^t

n	691	694	697	700	703	706	709	712	715	718
1	43	—	47	—	7 ²	17	—	13	127	19
3	19	—	43	—	229	13	7 ²	11	—	59
7	29	13 ⁱ	11	7 ^w	167	—	17 ^p	31	23	—
9	—	31	—	—	—	7 ²	23	—	43	—
13	11 ^t	41	7 ^k	53	—	241	—	17 ^s	13	7
19	—	7 ^q	13 ^m	—	19	—	—	229	7 ^b	11
21	13 ²	11	113	7 ²	—	—	—	67	37	—
27	—	—	7 ²	239	—	—	19	13	—	7 ^m
31	73	—	103	13	53	11	7	19 ^k	233	109
33	257	7 ² g	137	59	61	23 ⁿ	89	—	7 ^f	29
37	47	23	—	11	37	7	—	—	—	—
39	7 ² b	—	—	—	31	—	11	7	13	19 ²
43	—	17 ^s	97	89	7 ^g	41	61	191	29	—
49	—	37	19	7	103	31 ^p	—	—	—	—

NUMERORUM.

49

γ	692	695	698	701	704	707	710	713	716	719
3	—	7	29 ²	11	23	17	19 ⁿ	113	7 ^r	13
9	7	11 ^v	—	13	181	—	17	7 ^t	101	—
11	67	13	7	—	11 ⁿ	31	—	29	19	7
17	19	7	11 ²	—	67	—	47	—	7 ^g	—
21	—	19	—	—	13	7	29 ^m	73	11 ^b	23 ^r
23	7 ^{fl}	37	13 ^o	—	—	197	—	7 ^k	67	71
27	37	251	—	23	7	107	11 ²	—	41	17
29	107	23	—	19	—	—	7 ^w	—	83	11 ^g
33	—	31	—	7 ^p	11 ⁱ	13	251	—	—	—
39	—	—	7 ^f	—	—	127	—	—	71	7 ^p
41	17	197	211	—	7 ^l	11 ^s	19	—	31	—
47	—	17	—	7 ^f	13	263	23	—	—	—
51	7 ^g	157	23	29 ^o	—	139	227	7	137	11 ^m
53	23	11	7 ^b	31 ²	47	—	41	—	79	7 ⁱ
57	—	—	—	—	—	173	7	11 ^g	131	47
59	—	7 ⁱ	—	17	—	13	—	—	7 ^l	227
63	—	13	19	—	31	7 ^f	179	—	—	—
69	113	73	109	11	7	—	—	23 ^l	13 ⁿ	79
71	53	29	107	47	19	17 ^k	7 ^{fg}	149	—	—
77	13 ^w	41	—	—	11 ^p	7	17 ⁿ	137	229	167
81	29	17	7 ^u	—	—	37	—	41	43	7 ^{2g}
83	79	149	11	—	7	—	31	13 ^{b2}	97	—
87	193	7	17	13	—	71	67	—	7 ^{ff}	—
89	11	13 ^r	47	7 ⁿ	—	29	—	—	17	193
93	7 ⁱ	—	37	17	157	—	11 ^k	7 ^{2m}	—	—
99	23 ²	79	—	—	11 ^{gl}	83	7 ²	—	—	—

β	691	694	697	700	703	706	709	712	715	718
51	—	199	11 ^k	—	—	7	—	43	—	13
57	11	—	79	13 ^b	7 ^{k2}	—	—	—	163	181
61	23 ^m	7	—	—	71	19	11	—	7	—
63	—	—	—	7	17	—	29	—	—	11 ^q
67	7 ^o	—	—	—	11	—	13 ^r	7	59	—
69	263	127	7	41	13	17	—	11 ²ⁱ	—	7
73	13 ^b	—	11	79	—	29	7	263	19	41
79	11 ⁱ	17 ^t	—	—	—	7 ^k	—	13	31	—
81	7	—	31	11 ^k	—	13	—	7 ^b	47	—
87	43	11	19	109	59	—	7	—	17	—
91	—	—	101	7 ^{hi}	43	223	—	11	13	29 ⁿ
93	—	—	71	29	—	7	13 ^p	—	—	17
97	—	—	78 ²	191	17 ^o	11	—	83	—	7
99	13	—	223	—	7 ^z	19 ^t	—	37 ^o	11 ^k	—

G

7200

TAB. I. DIVISORES

<i>n</i>	720	723	726	729	732	735	738	741	744	747
1	89	17	79	—	71	31	7 ^g	—	47	11
7	13 ^l	—	17	—	19	7	23	11	37	—
11	107	167	7 ^{fk}	—	179	19 ^r	31	37	—	7 ^g
13	23 ^m	—	—	17	7	11 ^o	223	13	—	—
17	11	7	—	13 ^v	211	—	97	137	7	—
19	—	13	101	7 ^f	17 ^s	37	—	19 ^q	—	—
23	7	31	—	—	37	—	—	7	19	11
29	17 ⁱ	151	59	233	13 ^p	—	7 ^r	11 ^k	263	—
31	—	7	13 ⁿ	—	67	23 ²	17 ^p	—	7 ⁴	—
37	7 ^o	—	19	—	—	151	47	7 ^{2b}	11 ^u	13
41	61	—	17	11 ⁱ	7	13	41	151	—	31
43	—	73	—	13 ^m	—	251	7 ^{2f}	—	17 ^l	41
47	—	11	—	7 ^b	89	—	—	53	109	—
49	109	71	—	—	11	7 ²ⁱ	—	—	—	17
53	—	—	7 ^A	—	17 ^m	—	13 ²ⁱ	29	—	7 ^s
59	13 ^k	7	113	—	—	17	—	—	7 ^f	—
61	11	269	—	7 ²	61	—	233	—	19	—
67	19	—	7 ²	131	41	13	—	—	113	7 ^f
71	97	13 ⁱ	—	43	11	—	7 ^t	17	—	—
73	—	7 ⁱ	—	—	47	29 ^p	31	11 ²	7	23
77	—	157	11	—	—	7 ^k	—	—	13 ^b	37 ^p
79	7 ²	—	—	19 ^k	127	11	13	7	71	—
83	11	—	13	59	7 ⁱ²	—	—	31	211	17 ^r
89	—	191	—	7	83	—	37	—	—	11 ^g
91	—	11	157	47	—	7	19	13 ²	163	29
97	17	13	139	—	7 ⁿ	—	—	—	23 ^o	—

<i>n</i>	721	724	727	730	733	736	739	742	745	748
1	—	7	—	37	23	11	67	—	7 ^l	131
3	—	17	23 ^l	7	—	89	263	—	11 ^g	19 ^m
7	7	61	—	11	13	—	—	7	—	239
9	—	19 ⁿ	7 ^{gb}	—	—	—	11	—	—	7
13	37	11 ^l	19 ^p	—	167	—	7	47	269	79
19	41	139	—	—	157	7 ^g	193	—	43	23
21	7	—	11 ^t	13 ^o	17 ⁱ	83	29	7 ^k	—	—
27	11 ^x	23 ^q	—	103	—	17 ^t	7 ^s	199	—	—
31	17	—	257	7	—	29	11 ^{2g}	—	—	—
33	53	113	—	199	13	7 ^u	17	19	73	11
37	13 ^m	17	7	—	11 ^s	—	107	61	19	7
39	—	107	—	—	7	211	—	11 ^b	131	67
43	19	7 ^x	11 ^b	—	71	—	—	13	7 ^k	—
49	7 ^f	13	23	17	41	47	73	7	127	29 ²

NUMERORUM.

51

<i>y</i>	722	725	728	731	734	737	740	743	746	749
3	103	—	47	41	11	7	43	67	61	—
9	163	31	11	29	7	—	13	19	—	173
11	—	59	17	113	13	11	7 ^A	—	—	23
17	257	127	—	11b ²	—	7	—	—	29 ^m	19
21	—	47	7 ^B	—	—	—	—	13	71	7 ^f
23	—	11 ⁱ	—	83	7 ^b	13 ^r	79	—	—	—
27	—	7 ^g	19	—	101	—	—	11 ^l	7 ²	31
29	—	29 ^o	67	7 ^m	97	17	181	239	37	—
33	7 ^b	—	173	—	—	11	101	7 ⁿ	13	—
39	29 ^q	17 ²	13 ²	11 ^t	23 ^m	19	7 ²	79	101	137
41	13	7 ^p	23	—	271	37	11 ^r	17	7	—
47	7	—	97	193	11 ²	29	—	78 ⁱ	17	149
51	—	—	263	13 ^b	7 ²	—	—	149	19	241
53	—	13	11 ⁿ	191	—	131	7 ^v	—	—	17
57	19	37 ²	41	7 ²	17 ^l	—	103	—	11 ²	23
59	11	—	—	149	—	7 ^o	31	23 ^r	13	—
63	127	149	7 ²	23	13	17	11	—	197	7
69	—	7 ²	—	19	11	71	17	31	7	61
71	—	31	—	7	—	—	—	11	89	13 ^w
77	—	—	7 ^l	13 ²	—	11 ⁱ	—	—	53	7
81	11	181	31	—	197	89	7 ⁱ	—	17 ^k	97
83	41 ²	7	—	11	—	—	23	—	7 ^q	167
87	—	29	23	163	43	7 ^y	13 ^o	73	—	11 ^b
89	7 ^k	11	—	—	13	113	43	7	19	31 ^o
93	13 ^u	229	—	53	7	109	—	11	113	19
99	197	19	269	7	67	11	—	13 ^s	—	37

<i>B</i>	721	724	727	730	733	736	739	742	745	748
51	23	53	7 ⁱ	11 ^l	—	—	—	41	—	7 ^{b²}
57	59	7 ^f	31	43	109	73	13	—	7	—
61	—	—	13 ^l	—	—	7 ^b	—	11 ^p	—	—
63	7 ^{g²}	233	—	—	—	19	37	7 ^C	173	43
67	—	—	—	31	7 ^q	11 ⁿ	17 ⁱ	23	—	13 ²
69	—	—	53	89	—	23	7	13 ^l	11	—
73	—	23 ²	61	7 ^{fg}	239	—	—	17 ²	—	—
79	89	11 ²	7 ⁿ	—	—	—	29	—	17 ^o	7 ⁱ
81	19 ^l	—	73	107	7 ^f	—	167	59	13	103
87	37	173	11 ^g	7 ^r	—	31	241	—	—	—
91	7	71	83	—	79	59	23	7	11	—
93	11	—	7	19	23	—	61	—	97	78
97	23 ^p	—	—	67	19	13	7 ^{fm}	—	—	—
99	17 ^m	19	43	13	29	—	—	191	7	11 ²

TAB. I. DIVISORES

<i>a</i>	750	753	756	759	762	765	768	771	774	777
1	179	257	19 ^R	7 ²	181	113	—	—	17 ^l	13 ^p
7	107	—	7 ²	13	—	—	89	83	11 ^m	7 ^b
11	—	127	—	11 ^u	17	—	7	29	199	—
13	—	7 ^{2l}	83	—	—	19	11	59	7	—
17	—	110	—	89	199	7 ^b	13 ⁱ	67	—	23 ^m
19	7 ²	109	—	31 ²	118 ²	—	—	7 ^k	—	—
23	13 ^l	—	47	23	7	59	17	233	139	—
29	—	—	—	7	31	103	—	13 ^b	11	19
31	11 ⁱ	71	53	—	—	7 ^{l2}	—	137	—	—
37	—	—	43	—	7	—	—	—	211	11 ⁿ
41	—	7 ^q	—	—	11 ^l	—	43	—	78 ^k	17 ²
43	101	59	67	7 ⁱ	—	—	13 ^k	11	43	—
47	7 ^v	—	11 ^{k2}	173	19	41	—	7 ^C	—	—
49	13 ^k	151	7 ^B	53	—	11	31 ⁿ	179	41	7 ^l
53	11	—	—	151	—	37	7	—	73	13
59	47	179	—	13	—	7	151	19 ^m	29	11
61	7	118 ^b	29	37	—	—	101	7 ^w	71	—
67	271	—	17	—	53	23	7 ^x	—	13 ^s	19
71	41	23 ^l	31	7	13	11	—	—	—	83
73	37	19	13	170	89	7	—	229	11	—
77	193	—	7 ⁱ	11	83	73	59	71	—	70
79	—	43	—	—	7 ^b	—	11 ^l	113	—	13 ^m
83	—	7 ^{f2}	—	—	—	13 ^p	—	79	7	—
89	7 ^b	—	—	—	—	19 ^l	23	7	—	107
91	61	—	7 ^f	—	23 ^m	191	17	—	—	7
97	11	7	59	—	13	—	131	17 ⁱ	7	—

<i>β</i>	751	754	757	760	763	766	769	772	775	778
1	13 ^r	—	17 ^t	—	41	7 ^m	11	—	19	—
3	7	—	—	—	—	—	53	70	17 ^q	11 ²
7	19 ^s	—	—	17 ²	7 ^f	—	—	13	179	29
9	—	73	—	29	137	13 ^v	7	11	—	17 ^k
13	31	13	11	7	17 ^u	23	—	—	—	—
19	11	53	7 ^l	19	167	17	—	37	13 ^u	7
21	43	199	—	11	7	193	13 ^t	31 ^q	—	59
27	13	11	41	7	127	19 ⁿ	43	29	—	223
31	7	—	—	—	37	—	19	7 ^{fb}	310	13
33	—	241	7 ^m	139	—	197	107	13 ²	23	7
37	227	—	53	13	23	11	7 ^l	—	17	277
39	29	78	23 ⁿ	—	97	173	47	—	7 ^{fi}	—
43	163	37	—	11 ^m	—	7	—	—	—	17 ⁱ
49	—	11 ⁱ²	211	113	78	—	—	—	—	—

NUMERORUM.

53

γ	752	755	758	761	764	767	770	773	776	779
3	157	—	7 ^g	—	—	11 ⁱ	—	23	7 ⁱ	7 ^m
9	—	7 ^{2k}	41 ^p	11 ^{2b}	109	79	53	97	7	13 ²
11	—	—	47	7 ^y	43	41	11	13 ⁱ	—	17
17	—	13 ⁿ	7	103	11	—	—	—	—	7
21	19 ⁿ	—	—	163	—	17	7	167	—	67
23	—	7	11 ^t	—	—	73	—	—	7 ^g	29
27	—	—	191	269	13	7 ^A	17 ^k	53	11	149
29	7 ^f	47	13 ⁱ	—	23	277	—	7	149	—
33	23	—	—	19	7 ^t	—	11 ^q	17	29	—
39	—	—	181	7 ^w	11	13	41	—	17	59
41	67	—	149	13	—	7 ⁱ	—	11 ^x	—	41
47	47	31	73	—	7 ⁿ	11	—	—	—	23
51	11	7 ^p	101	271	89	23 ^q	13	—	7	—
53	—	—	—	7 ^{fk}	13	—	29	103	19 ^t	137
57	7 ^g	—	31	—	101	—	251	7 ^p	79	11 ⁱ
59	17 ⁱ	11	7	—	157	59	263	—	—	7 ²ⁿ
63	73	19 ^o	107	—	—	29	7 ^B	11 ^g	37	53
69	—	13	—	59	47	7 ^f	—	—	101	—
71	7	—	17	19 ²	—	—	37	7 ²	11 ^k	103
77	—	—	23	17	31	—	7 ^J	—	173	—
81	83	11	13 ²	7	—	—	—	223	—	29
83	13	—	—	29 ⁿ	11 ^b	7 ²	19	—	131	—
87	79	131	7 ⁿ	47	—	31	157	19	—	7 ^g
89	—	269	11	61	7 ⁱ	17	127	13	—	167
93	17 ^p	7	29	13	—	41	—	193	7 ^f	23
99	7 ^m	17	71	23	227	61	11 ^p	7	—	—

β	751	754	757	760	763	766	769	772	775	778
51	223	197	13	59	11 ²	—	7	67	—	127
57	17	61	11 ^v	19	29	7 ^q	41	23	—	13 ^r
61	—	59	7 ^x	23	19	13	—	—	11 ²	7 ⁱ
63	11	17 ^k	239	13	7	31	—	—	—	—
67	—	7	—	29 ^p	—	—	11	—	7 ²	—
69	—	163	17	7	—	43	19	—	—	11
73	7	71	—	127	11 ^r	—	13 ^m	7 ⁱ	—	43
79	13	—	11 ^y	—	—	—	7 ²	—	23	47
81	—	7 ^o	—	—	17	11	23	109	7	19
87	7 ^k	191	—	11	—	13 ^b	167	7 ^t	—	71
91	17	13	19	—	7 ²	53	—	—	—	11 ^w
93	—	11	—	47	79	271	7 ^b	37	31	—
97	29	17	—	7 ²	241	—	37	11	13 ^q	61
99	139	103	229	—	19	7	13	17	73	—

TAB. I. DIVISORES

α	780	783	786	789	792	795	798	801	804	807
1	7f	—	83	—	—	107	—	7	37 ^o	—
7	—	—	—	19	103	43 ⁱ	7g	—	—	11 ² k
11	181	—	13	7	11 ⁱ	23	—	—	191	43
13	13 ^b	71	127	23 ^q	113	7 ⁿ	—	11	97	—
17	—	—	7f	53	37	131	—	113	29 ^q	7g
19	61	17 ²	29	—	7	11	19	13	137	53
23	11 ^o	7 ^u	—	13 ²	227	281	—	19	7	89
29	7 ^v	29 ⁿ	61	—	—	67	—	7	—	11 ^o
31	—	11	7 ^q	17	—	—	—	97	227	13 ^k
37	73	7 ⁱ²	13 ^k	193	17 ^s	—	29	127	7	—
41	—	—	19	—	—	7f	—	—	257	263
43	7	157	—	89	109	17	—	7D	11 ^v	13
47	17	—	31 ^p	11	7	13 ^l	—	—	—	—
49	—	47	—	13	19 ^p	—	7fb	—	—	—
53	89	11 ^b	—	7	41	19 ^r	47	—	43	23
59	—	127	7 ^b	23	—	—	13	71	61	7 ^y
61	251	23	11	281	7g ²	—	—	19	17	—
67	11 ^q	—	97	7 ^l	31	251	—	—	67	17
71	7 ⁱ	109	151	157	17	47	11 ^r	7g	—	37 ²
73	101	181	7	151	—	13	—	—	—	7f
77	163	13	29	—	11	17 ^m	7	—	23	—
79	—	7	19 ^o	—	—	—	23 ²	11 ⁿ	7	—
83	113	103	11 ^k	19	—	7	17 ⁿ	181	13 ^o	—
89	11 ^m	43	13	—	7 ^q	—	—	17 ^r	—	—
91	13	277	—	11 ^p	37	19 ^s	7B	—	—	173
97	29	11	—	197	179	7 ^y	109	13 ^m	101	43
A	781	784	787	790	793	796	799	802	805	808
1	—	—	7	13 ^s	—	—	—	11 ^k	79	7 ² b
3	83	13 ⁿ	211	199	7	23	—	139	19 ²	—
7	37	7 ^k	—	41 ²	71	11	—	—	7 ² m	19
9	19	89	31	7	—	—	41	—	11 ^g	—
13	7	19	—	11 ²	13	—	157	7 ²	—	211
19	191	11	223	31	—	103	7 ⁱ	97	73	—
21	—	7 ^b	—	19	11	—	229	—	7	13
27	7	—	11 ^b	13	23	—	257	7 ^w	—	131
31	23 ^p	107	131	—	7 ²	—	67	—	11	—
33	11	41	43	17	—	—	7 ⁱ	—	29	—
37	—	—	—	7 ²	—	97	11g ²	19 ^o	—	229
39	—	—	71	—	13 ^b	7 ^m	—	—	43	11
43	13	47	7 ²	—	11	73	—	29	239	7
49	17	7 ²	11	137	—	23	31	13	7 ⁿ	—

NUMERORUM.

55

γ	782	785	788	791	794	797	800	803	806	809
3	—	29	—	—	271	13	7f	131	—	17
9	197	—	—	239	11	7s	19	—	149	—
11	7	—	53	—	—	79	29m	7 ² f	—	—
17	17p	—	269	61	13 ^o	11	7 ² k	—	19	—
21	11g	233	23 ²	7z	43	29	—	31	—	19
23	19k	17m	—	11	—	7 ²	43	47	37	—
27	137	19	7	67	—	61	79	13n	—	7f
29	—	11 ³	17	53	7 ²	13	191	—	—	—
33	—	7g	31	—	—	71	163	11u	7	—
39	7	—	—	—	19n	11 ²	—	7k	13	29
41	—	—	7 ²	29	17	23	13q	—	11	7m
47	13 ²	7 ³	37	—	53	17	11i	—	7 ^o	61
51	17	11n	29	—	—	7	—	19	—	13 ²
53	7 ²	—	—	—	11m	173	17 ²	7g	59	—
57	139	17	—	13	7	—	223	107	—	73
59	—	13	11u	—	181	47	7	17l	79	19
63	61	251	17	7p	229	31 ²	23s	—	11	—
69	23 ^o	—	7i	17	13	—	11l	—	—	7p
71	29	—	13	41	7	241	—	179	—	11b
77	—	—	—	7	19q	—	—	11	—	13
81	7r	179	11v	—	—	13i ²	73	7	—	47
83	—	—	7s	13	61	11	53	31	—	7k
87	11 ²	89	—	—	101	23	7b	—	—	109
89	79	7c	—	11k	29	73	283	19	7	—
93	59	—	—	—	—	7	13t	17	19m	11n
99	13i	53	257	29	7 ^o	199	173	11	17q	107

β	781	784	787	790	793	796	799	802	805	808
51	31	19	61	7k	73	11g	17	—	109	233
57	—	67	7	11	—	—	37	17	—	7
61	47	31	17 ^o	173	61	37	7	83	13	11
63	—	7f	79	—	19	29 ^o	13	—	7b	—
67	—	—	13w	17	—	7i	—	11	—	193
69	7g	131	227	37	139	—	211	7	23m	17u
73	—	97	37	107	7bk	11	—	—	197	13
79	—	—	—	7fg	—	17p	—	—	19	31
81	37	13	—	31	163	7	11 ²	43	61	29
87	41	—	—	—	7f	—	—	—	13	47
91	—	7	—	139	13m	—	41	17	7l	23
93	—	53	11gi	7	—	—	167	23	83	41
97	7	—	—	19k	—	—	—	7	11b	—
99	11	23	7	83	—	—	—	59	—	7 ² g

81000

TAB. I. DIVISORES

α	810	813	816	819	822	825	828	831	834	837
1	—	11 ⁱ	13	—	7	17 ^k	31	—	—	—
7	59 ^a	—	79	7	—	—	17	41	—	13 ^q
11	7 ^v	17	—	101	229	11 ^g	—	7 ^m	239	97
13	—	31 ^p	7 ^z	13	19	109	—	17	11	7
17	—	233	17	11 ²	—	19 ^p	7	—	—	—
19	—	7	—	—	—	179	11	43	7 ^b	—
23	—	11	31	17 ^t	—	7	13 ^k	101	—	29
29	13 ^k	167	—	—	7 ^b	—	113	97	19	101
31	—	—	11 ^o	—	—	—	7	59	—	31 ⁿ
37	11 ^r	163	—	—	—	7 ^g	—	—	—	—
41	—	13	7 ^D	67	—	59	11 ^b	71	181	7 ²
43	—	—	19	—	7 ^m	197	37	29 ^q	—	11 ^k
47	—	7	—	19 ²	11	23 ⁿ	—	17 ^u	7 ^{2g}	83
49	—	—	—	7 ^k	233	—	13	11	—	89
53	7	—	11 ^g	—	83	31	29	7 ²	17	61
59	11	—	37	41	43	—	7 ²ⁱ	137	—	13 ^b
61	103	7 ^s	127	11	—	—	41 ^p	13	7	—
67	7 ⁿ	11 ^g	—	—	—	—	173	7 ^E	19 ^k	211
71	—	—	—	—	7 ^{2k}	—	79	11	—	19
73	17 ⁱ	—	23 ^r	—	29	71	7	31	13	—
77	—	19	—	7 ⁱ	13	11	179	—	—	—
79	89	17	13 ^t	73	—	7 ^q	67	223	11	199
83	—	97	7 ²	11 ^l	107	269	—	193	31	7
89	131	7 ^{2f}	—	163	19 ^t	13	—	41	7	23
91	83	199	151	7 ^{gb}	11	—	—	23	29	—
97	—	23	7 ^f	167	17 ^q	151	19	27 ⁱ	—	7

β	811	814	817	820	823	826	829	832	835	838
1	—	—	—	43	—	—	7 ^g	19 ^l	11	47
3	11 ^w	7 ^l	—	—	13 ²	17 ^p	—	—	7 ^x	181
7	13 ^b	127	—	—	—	7	11	—	113	43
9	7	—	101	—	53	—	17	7	37 ²	11 ⁱ
13	29	17	41	—	7 ^f	—	—	13 ⁿ	23	—
19	—	13	11 ^{bi}	7	263	—	283	—	47	79
21	23	—	71	—	191	7 ^{fl}	101	—	17 ⁴	109
27	31	107	—	11	7 ⁱ	53	13	—	101	17
31	—	7	13	—	17 ^l	19	127	—	7	11
33	13 ^x	11 ²	37 ^q	7	281	—	239	—	103	—
37	7 ^u	31 ⁿ	—	—	137	17	197	7 ^{fk}	—	13
39	41	—	7	—	—	23	—	13 ⁱ	139	7 ^{2l}
43	53	23	43	13	67	11 ²	7 ^{b2}	—	19	—
49	19	79	—	11	—	7	109	17 ^s	29 ^p	191

NUMERORUM.

57

γ 812 815 818 821 824 827 830 833 836 839

3	—	149	179	7 ⁿ	19	191	—	11	13 ^s	—
9	17 ²	—	7 ^{gl}	47	23	11 ^w	—	227	—	7
11	15	37	23	157	7 ^t	107	17 ⁱ	—	11 ²	—
17	241	—	—	7	73	181	11	13 ^{2b}	—	31
21	70	11	17	13	—	—	61	7	—	—
23	—	13	7	41	11 ^s	—	—	97	17	7 ⁱ
27	43	—	47	17	139	—	7 ^l	103	241	230
29	29	7 ⁱ	11 ^p	—	31	—	79	23	7 ^g	17
33	—	—	19 ^s	23	13 ^b	7 ^r	43	167	11	—
39	—	67	—	—	7	17 ^m	11	—	—	—
41	137	73	223	—	19	97	7	—	—	11 ^g
47	113	—	—	13 ^v	29	7	—	11	233	127
51	31	—	7 ^f	113	41	83	53	17	23	7 ^u
53	193	—	—	—	7	11	23 ²	190	—	37
57	11 ^y	7 ^t	23	29	—	—	13	—	7 ^{hi}	59
59	23	—	109	7 ^{f2}	13	—	—	31	269	113
63	7 ^{gi}	—	71	—	—	—	—	7	—	11 ^b
69	181	—	—	127	—	37	7	11 ^{2g}	31	—
71	67	7 ^p	19 ^m	—	—	13	—	263	7	131
77	7 ^h	29 ^{2p}	41	37	67	23 ^t	—	7 ^p	11	79
81	—	23	37	11 ^m	7	—	251	199	130	137
83	—	17	—	—	—	19	7 ^{fg}	—	67	—
87	29	11	13	7 ^s	—	—	19	61	53	—
89	13 ³	83	17	—	11	7	—	—	—	47
93	—	139	7	—	—	—	—	89	127	78 ²
99	—	7	—	13	—	—	23	—	7 ^f	19

β 811 814 817 820 823 826 829 832 835 838

51	7	47	29	—	—	—	11	7 ²	13	71
57	—	—	13 ⁱ	31	11	—	7 ²	—	—	—
61	277	29 ^r	—	7 ⁱ	—	131	23	139	—	17
63	—	—	11	137	23	7 ³	—	53	—	13
67	23	41	7	—	31	13	163	—	11 ^v	7
69	11 ^q	257	—	13 ^s	7 ²⁰	19 ²	29	—	193	—
73	—	7 ^C	—	—	—	47	11 ⁱ	—	7	—
79	7	59	53	211	11	29	13 ²	7	—	37
81	—	17	7 ²	79	13	89	—	11 ^w	19 ^r	7 ^k
87	19	7 ²	17 ²	23 ^p	—	11	31	37	7	149
91	11 ³	19	89	103	47	7	37	13 ^p	—	—
93	7 ²	227	263	11 ^b	—	13	149	7 ^w	179	43
97	—	13	157	53	7 ^x	41	—	31	—	11 ^l
99	—	11 ^m	—	191	17 ⁿ	—	7 ^v	—	41	53

H

84000

TAB. I. DIVISORES

α	840	843	846	849	852	855	858	861	864	867
1	107	7	11	59	—	13	239	29	7	277
7	7 ^f	—	19 ^t	197	139	37	53	7	71	31
11	—	59	211	190	7 ²ⁿ	233	111	—	13 ^{b2}	—
13	29	—	191	—	—	—	7g ^k	—	—	11
17	—	—	13k	7 ²	11 ^t	—	—	—	103	17
19	15 ^k	—	37	—	31	7 ⁱ	—	11	89	—
23	73	37 ^p	7 ^{2f}	163	—	—	19	71	—	7g
29	11	7 ²	—	13q	—	31 ²	—	43	7	—
31	17	13 ²	—	7 ^f	29	—	—	—	19	43
37	19	11 ^{2b}	7D	157	—	23	—	—	13 ^t	7
41	31	19 ^k	53	29 ²	13 ^x	113	7	110	—	127
43	229	7	13 ^b	173	—	131	—	—	7 ^r	—
47	—	—	47	—	—	7 ^{f2}	—	277	137	223
49	7	—	—	17 ⁱ	163	—	293	7 ^m	111	13
53	—	67	—	11	7 ⁱ	13	—	101	—	—
59	—	11	—	7 ^r	—	67	23	29	31	101
61	—	29	31	—	11k	7 ^b	19	—	—	53
67	—	239	11p	—	7g	41	17	199	—	—
71	13 ^l	7 ^b	227	31	71	—	43	—	7 ^f	—
73	11	139	—	7 ^t	269	83	79	17 ⁿ	43	19
77	7	—	17 ²	—	53	—	11 ⁿ	7g	—	107
79	83	19	7	—	107	13 ^l	157	—	17	7 ^f
83	47	13	19	17	11	23 ^t	7	—	197	—
89	—	—	11	37	17 ^l	7	—	79	13	59
91	70	—	—	—	19 ^u	11 ^m	13	7 ²	—	229
97	13	37	—	11	—	—	7 ²	—	67	290

β	841	844	847	850	853	856	859	862	865	868
1	37	—	—	7	197	—	17 ^m	—	—	11g
3	31	11	71	167	—	7 ²	—	13 ⁱ	23	61
7	151	—	7	13 ²	23	—	271	11 ^b	19 ^l	7
9	241	13 ^p	23 ^l	—	7 ²	59	—	—	—	47
13	19 ²	7 ^m	—	151	—	11 ^p	53	73	7 ^b	—
19	7 ^t	290	—	11 ^s	13	—	151	7 ^E	241	17
21	—	—	7 ^{3g}	—	41	—	11 ^w	151	31	7 ^x
27	—	7 ²	193	—	11	—	29	23 ²	7 ^q	13
31	—	—	—	23	—	7g	—	53	—	31
33	7 ^{2b}	23	11	13 ^m	—	19	—	7 ^A	—	71
37	—	—	—	—	7 ^w	29	19	83	11	—
39	11	17	101	277	61	—	7	—	—	37
43	—	—	83	7	31	—	11g ¹	—	37	—
49	13	—	7	—	11	41	61	—	23 ^r	7 ⁱ

NUMERORUM.

59

γ 842 845 848 851 854 857 860 863 866 869

3	7 ^k	—	137	—	41	—	17	7	11	43 ²
9	107	—	—	—	223	13 ⁱ	7 ^f	17	257	233
11	—	7	—	13	—	—	—	—	7	11
17	7 ^r	223	89	47	229	—	—	7 ^{fi}	37	23
21	—	—	11 ²	—	7	23	13 ²	37	198	17
23	—	—	271	23	13	11	7	—	29 ²	—
27	11gi	181	—	7	—	59	—	173	—	—
29	—	137	41	11 ^v	—	7 ⁿ	—	131	—	—
33	131	—	7	—	37	—	227	13 ^l	41	7 ^f
39	—	7g	43	19	—	83	97	11q	7	—
41	61	17	37	7	43	179	139	—	23	227
47	—	59	7 ^{hk}	—	—	19	13	79	11	7
51	173	—	13 ^t	11	—	—	7 ⁱ	—	73	—
53	13	7 ^q	53	17	—	29	11	—	7	89
57	109	11	—	31 ^o	97	7	47	—	193	13
59	7	—	—	—	11 ^b	191	41	78 ²	19	—
63	—	103	113	13	7 ^l	139	89	67	79	19 ^k
69	17	19	—	7 ^{k2}	—	199	—	—	11	—
71	11 ^q	23	—	53	127	7	17 ^t	—	13 ^s	29
77	71	83	13	19	7	31	—	17	—	11
81	271	7 ^p	17	103	11 ⁱ	—	59	—	7 ^{2l}	—
83	89	41	29	7 ^p	73	109	—	11	17	13
87	7	251	11	17	—	13	31	7 ^{2o}	23	37
89	31	—	7 ^u	13	53	11 ²	19 ^k	—	—	7 ^{b2}
93	11 ^x	29	23	—	17 ^q	—	7 ¹	19	—	—
99	—	31	73	—	13	7 ^{2b}	13 ⁿ	—	181	11 ²

β 841 844 847 850 853 856 859 862 865 868

51	19 ^p	79	—	17	7 ^z	97	23 ⁿ	11	41	—
57	23	—	131	7 ^l	17	11g	43	—	101	—
61	7 ^f	13 ^w	—	—	—	—	67	7	—	—
63	—	—	7	11 ²ⁱ	—	17	31 ^q	—	107	7
67	17	—	29 ⁿ	257	19	—	7	281	13	11 ^r
69	73	7 ^f	103	97	—	—	13 ^b	—	7 ^y	—
73	41	17	13	241	59	7	149	11 ^{2k}	—	109
79	—	23	17	149	7	11	127	19 ²	—	13 ^o
81	—	—	149	—	—	47	7 ^v	13	11 ^b	283
87	29	13 ^u	—	—	103	7	11	—	—	17 ⁱ
91	—	11	7	—	17	—	—	—	131	7
93	59	19	—	—	7 ^f	67	113	—	13	31
97	269	7	19	43	13	17 ^v	23	—	7 ^z	113
99	—	—	11g	7	23 ^q	43	—	211	—	67

H ii

8700

<i>a</i>	870	873	876	879	882	885	888	891	894	897
1	19 ²	67	17	11 ^t	193	7 ^q	—	—	13 ^k	271
7	167	11	13 ^k	17	7	67	—	—	29	109
11	—	7	79	—	—	61	—	11	7 ^r	283
13	—	—	—	7 ⁱ	17	—	—	—	—	13 ^u
17	7 ^m	—	41	—	19	11 ^g	—	7 ^l	—	73
19	173	29	7	13	47	17 ^o	—	—	11 ²	7 ²
23	17	—	—	11	—	—	7	—	223	23 ^q
29	29	11 ^b	—	23	83	7	13	19	37	53
31	7	23	—	—	11 ^g	223	211	7 ^{2b}	—	61
37	—	—	11 ^m	47	—	29 ^p	7 ⁴	—	17	19
41	—	167	—	7 ^b	—	37	73	13	11 ^q	43
43	11 ^o	19	—	—	79	7 ^{2g}	—	97	—	17
47	61	13	7 ⁱ	31	17 ^l	—	11 ^o	239	23	7
49	—	113	—	37	7 ²	73	23	59	—	11 ^o
53	263	7	23 ⁿ	281	11 ^v	17	—	—	7 ^g	—
59	7	—	11 ^g	—	—	19 ^s	17	7 ^q	—	—
61	13 ⁿ	199	7 ²	—	—	11 ^y	—	163	137	7
67	83	7 ²	29	11 ²	61	31	—	13 ⁱ	7	—
71	—	41	—	13 ^u	103	7	181	23	17 ⁱ	11
73	7 ²	118 ²	73	—	41	23	—	7	131	107
77	19	23 ^l	43	—	7	101	31 ^q	11 ⁵	—	17
79	31 ^r	59	—	97	43	283	7	157	13	—
83	—	—	—	7	13	11	—	101	43	—
89	73	31	7	11 ⁱ	—	—	103	—	109	7 ^B
91	17 ^q	281	—	—	7	—	11	79	—	13
97	251	17 ^r	—	7 ^g	11 ^k	19	—	191	31	—

<i>B</i>	871	874	877	880	833	886	889	892	895	898
1	7 ^k	71	—	—	—	41	19	7	—	89
3	—	—	7 ^{fb}	—	227	251	—	—	37 ^o	7
7	—	—	229	—	233	—	7 ^g	37	11 ^x	31
9	11	7	139	17 ^m	13	—	67	—	7 ⁱ	—
13	13	61	239	283	47	7	11 ^s	—	—	19 ^l
19	—	19 ^p	—	—	7 ^{fm}	23	—	13	—	—
21	—	—	—	23 ^p	—	13 ^b	7	11	—	—
27	151	—	37	19 ^o	—	7 ^f	17	—	—	43
31	11 ^z	17 ⁿ	7 ^y	47	19	263	113	—	13 ^v	7 ^o
33	—	—	59	11 ^r	7	61	13	17 ^l	—	—
37	79	7	13 ^b	—	—	151	—	—	7	11
39	13	11	—	7	—	137	19 ^m	233	17 ^k	—
43	7 ^s	—	—	17	23 ²	—	29	7 ^{fi}	151	13
49	—	157	47	13 ²	17	11	7 ^A	31	149	—

NUMERORUM.

61

γ	872	875	878	881	884	887	890	893	896	899
3	29 ^m	13 ^r	—	19	7 ^w	107	—	—	—	11 ²
9	37	—	277	70	211	43	—	11 ^k	13 ^t	—
11	—	—	—	17 ^v	—	7 ^{il}	13 ^o	31 ^p	—	47
17	13	—	137	—	7 ^b	79	—	—	11	—
21	—	7	53	11	29	—	—	179	7 ^{2m}	13
23	—	—	31	7	—	17 ²	11	13	19 ^r	—
27	7 ^b	11 ^w	71	13	—	83	127	7 ²	—	19
29	19	13	7	—	11	—	17	—	47	7 ^l
33	83	17 ⁱ	—	31	191	89	7 ^{2k}	157	—	139
39	23	—	17	53	13	7 ²	269	41	11 ^l	—
41	7 ^{f2}	—	13 ^l	19	59	—	—	7	17	53
47	43	—	107	181	241	—	7	47	157	11 ^{gh}
51	—	29	59	7 ³	11 ^{2b}	13	—	199	37	293
53	—	—	—	13	197	7 ^m	19 ^p	11	—	23
57	—	—	7 ^{2f}	199	53	17 ^k	—	19	—	7 ^v
59	71	—	103	23	7	11	29 ⁿ	193	—	—
63	11	7 ²	41	131	—	37	13 ^{2b}	—	7	—
69	7 ^{2g}	67	—	—	—	29	—	7 ^b	—	11
71	197	11 ⁱ	7	37	—	—	—	—	—	7
77	—	7	—	—	103	13	281	139	7 ^k	—
81	—	13	—	109	23	7 ^f	229	—	—	17 ^u
83	7 ⁿ	—	23	163	19	47	—	7 ^F	11 ^m	—
87	191	—	—	11	7	19	—	—	13	29 ²
89	41	—	179	29	107	—	7 ^{fg}	71	—	—
93	—	11	13	7 ^p	—	—	41 ²	—	257	31
99	—	251	7 ^l	89	—	—	139	—	19	78 ^k

β 871 874 877 880 883 886 889 892 895 898

51	—	7 ^{m2}	—	191	53	—	—	149	7 ^f	19
57	7	19	127	173	149	—	11	7 ^o	13 ^y	59
61	43	11	19 ^m	107	7 ^g	—	17	—	—	23
63	101	149	13 ^p	83	11 ^l	—	7 ^v	23	—	73
67	67	47	—	7 ^k	97	—	43	17 ^s	—	—
69	61	23	11 ^x	—	19	7 ^r	—	—	43	13 ^m
73	179	—	7	29	67	13 ⁱ	193	—	11 ^b	7 ⁿ
79	—	7	61	—	—	71	11	73	7 ^u	17 ²
81	—	—	41	7	31	—	101	19 ⁿ	29	11
87	—	89	7	59	13 ²	131	23 ^r	11	101	7
91	13 ⁱ	—	11 ^k	137	157	31	7	29	—	—
93	17 ^k	7 ^l	—	—	37	11 ²	—	—	7	241
97	11	59	—	37	—	7	—	13	—	—
99	7	17	19	11	109	13	61	7	—	—

CCCCO

α	900	903	906	909	912	915	918	921	924	927
1	—	7 ³	7 ^p	—	11	37	—	31	—	7 ^{bo}
7	—	7 ⁱ	11	—	223	13	—	—	7 ^p	—
11	—	13	19 ²	—	197	7 ^b	—	—	11 ^m	83
13	7 ^f	—	31 ⁿ	229	53	—	—	7	—	23 ^l
17	—	37	—	—	7 ^y	23 ²	11 ^b	251	13	—
19	—	181	—	23 ^s	19	71	7 ^g	—	—	11
23	—	41	13	7 ^m	11	19	—	17	29	—
29	197	59	7 ^{f2}	79	—	—	229	181	17	7 ^g
31	—	103	—	—	7	11 ^r	131	13 ⁱ	—	47
37	179	13	233	7 ^f	—	239	—	199	23	—
41	7 ⁱ	61	—	211	23	—	—	7	97	11
43	127	11 ^p	7 ^k	199	—	31	29	—	13 ²	7
47	53	167	—	—	13	43	7	11	193	163
49	17	7	13 ⁱ	103	—	83	53	43	7 ^q	137
53	—	—	269	19	—	7 ^{fl}	31	—	59	—
59	—	—	—	11	7	13	97	157	—	23 ⁿ
61	113	109	17	13	263	19 ^t	7 ^f	23	—	—
67	—	23	71	17	11	7 ^c	—	37 ^q	—	—
71	—	—	7	—	107	—	13 ⁿ	61	89	7 ^l
73	—	—	11	29	7 ^{gb}	—	—	—	19 ^m	113
77	13 ⁱ	7	—	—	97	—	79	—	7 ^f	19 ²
79	11 ⁱ	—	—	7 ^o	37	17	139	—	—	—
83	7 ^b	19 ^u	29 ^r	37	—	—	11	7 ^g	23	31 ^o
89	—	13 ^b	23	—	11 ^p	67	7	—	—	—
91	23	7 ⁿ	89	19	—	—	43	11 ^{b2}	7 ^w	—
97	7 ^t	—	—	—	—	11 ²	13	7	17	71

β	901	904	907	910	913	916	919	922	925	928
1	11	—	13	17 ^r	7	139	29	137	233	—
3	13 ^l	—	—	11	—	47	7 ⁱ	—	—	17 ^r
7	—	—	61	7	17 ^o	101	73	19 ^k	—	11 ^{2g}
9	251	11	—	—	—	7 ^k	—	13 ^o	79	—
13	97	23	7	13	127	17 ²	107	11 ^y	71	7
19	227	7	83	—	53	11	17	—	7	101
21	—	19	257	7	29 ^q	—	—	—	11 ^g	—
27	—	31	7 ^g	227	271	59	11 ^t	—	67	7 ^z
31	193	11	—	29 ^p	—	—	7 ^k	149	17	—
33	173	7	41	—	11 ⁱ²	43	149	—	7	13 ⁿ
37	23	—	31	59	149	78 ⁱ	89	—	37 ^o	17 ^p
39	7 ^x	—	11 ^w	13 ^q	241	—	—	7	29	263
43	109	149	103	181	7	113	—	—	11 ^q	227
49	—	151	—	7	167	37	11 ^g	29	19	—

NUMERORUM.

63

γ	902	905	908	911	914	917	920	923	926	929
3	—	7 ²	—	17k	13x	—	—	241	7	61
9	7 ⁱ	29	71	31	17i	293	—	7	11	53
11	11s	—	7	179	—	—	101	—	37	7g
17	—	7 ^u	197	13p	113	41	19l	—	7B	11
21	83	131	—	—	11	7	17	19p	23	—
25	7	—	—	293	—	37 ²	23	7f ²	—	43
27	—	—	11k	—	7 ⁿ	29	13	17	—	—
29	23	—	61	—	13 ²	11m	7	127	211	19 ^u
33	11g	—	—	7q	—	—	—	—	17	199
39	—	37	7i	—	61	199	31	13	—	7fb
41	31o	11	—	—	7	13	—	107	—	—
47	—	—	—	7l	19	23	83	—	—	41
51	7	23m	47	—	109	11i	—	7x	13	—
53	17	83	7	—	—	—	13w	—	11	7 ⁱ
57	43	137	13l	11	—	—	7	—	—	—
59	13r	7b	43	—	—	89	11	19	7 ² m	—
63	—	11	—	—	—	7	43	—	19	13
69	19	41q	89	13	7 ^w	163	23	—	—	31
71	—	13	11 ²	17m	23o	—	7 ²	71	—	239
77	11l	53	19	73	17	7 ²	—	—	13	109
81	—	239	7	19	13m	—	11 ²	—	—	7 ⁿ
83	137	—	13	—	7 ²	17	—	—	—	11x
87	17q	7	—	67	11	263	71	—	7	—
89	—	157	97	7 ²	191	19	17	11n	59	13k
93	7	17w	11	—	—	13k	19n	7 ^u	—	—
99	11	—	17	—	—	41	7s	11	—	113

β	901	904	907	910	913	916	919	922	925	928
51	17	29	151	83	13	7	—	—	—	11k
57	89	17 ²	47	23n	7m	151	—	11	—	—
61	29	7	11n	41	103	71	—	13q	7 ²	—
63	—	61	17i	7	211	11g	41	257	151	—
67	7f	13	139	19	—	31	—	7 ⁱ	—	—
69	37	—	7	11b	—	29 ²	—	—	—	7
73	—	—	43	61	—	—	7 ²	53	13	11
79	31	173	13	—	23l	7 ²	19q	11	43	131
81	7g	—	23	—	—	17	59	7	—	293
87	—	41	—	79	—	277	7b	13m	11i	29
91	—	17	163	7 ² g ²	59	—	67	41	53	19
93	19q	13	—	71	—	7	11	17t	—	—
97	—	11i	7 ² b	—	—	47	—	—	29m	7k
99	—	—	29m	—	7f	107	197	23	13b	—

α	930	933	936	939	942	945	948	951	954	957
1	—	13	—	—	—	11 ⁱ	7 ^l	—	—	—
7	17	—	—	11	—	7 ^k	11 ^j	—	13 ^o	—
11	28 ⁱ	23	7 ^p	—	13	29	—	—	73	7 ^q
13	47	11 ^b	13 ⁱ	—	7 ^p	—	59	227	—	—
17	19 ⁱ	7	179	19	7 ⁱ	47	53	11	7 ^p	—
19	167	—	17	7	—	3 ⁱ	—	73	—	13 ⁿ
23	7 ^A	—	25 ⁱ	—	59	11 ^g	—	7 ^D	37	—
29	41	—	—	11	—	—	7 ^{ik}	25 ⁱ	—	29
31	31	7 ^u	109	29 ^o	17 ^k	—	11 ⁿ	—	7	—
37	7	—	—	—	11 ^g	17 ⁿ	—	7	19	—
41	13 ^b	31	29	—	7	—	—	89	—	19
43	19 ^s	269	11	37	73	—	7 ^b	—	—	67
47	—	17 ⁱ	37	7	79	—	—	13 ²	11	—
49	11 ²	277	71	—	307	7 ^g	—	17 ^l	31	23 ²
53	—	13 ^p	7 ^b	47	—	23	11	—	53	7
59	—	7	73	17	11 ²ⁱ	—	29	43	7 ^g	31
61	29	89	229	7 ^m	—	—	13	11 ^o	—	17 ^p
67	13	73	7	—	107 ^r	11	19	59	—	7
71	11	—	47	—	31	17	7	19	—	13 ^r
73	163	7	283	11	—	—	—	13	7 ^k	—
77	—	—	113	13	23	7 ^s	17	—	307	11
79	7	11 ^g	23	—	29	27 ⁱ	79	7	—	19 ^v
83	—	—	—	—	7	—	239	11 ^b	—	—
89	—	47	19	7 ^l	13	11	—	—	17 ^o	—
91	127	61	13	193	—	7	31	—	11	—
97	—	59	43	—	7 ⁱ	—	11	23	29 ⁿ	13

β	931	934	937	940	943	946	949	952	955	958
1	157	7 ^f	—	23 ^t	181	13 ⁱ	43	31 ⁿ	7 ²	—
3	—	23 ^m	—	7 ^g	11	—	—	—	43	—
7	7 ^q	—	83	—	—	89	—	7 ^l	—	149
9	17	29	7 ^f	—	—	37	107	19	149	7
13	—	109	31	41	37	—	7 ^{2g}	—	11 ⁱ	—
19	13 ²ⁱ	—	—	149	257	7 ²	11	—	23	—
21	7 ^r	103	17 ⁿ	167	—	—	23	7 ^t	59	11 ^m
27	23	—	19	17	—	13 ^l	7 ^v	11 ²	—	79
31	—	13	11	7 ²ⁱ	—	173	59	—	—	61
33	—	233	67	—	17 ^m	7 ^f	—	—	83	47
37	11	223	7 ²	271	29	101	139	131	13	7
39	—	41 ^p	—	11 ^y	7	17 ⁱ	13 ^u	—	—	239
43	17	7 ²	13	157	—	31 ^p	19 ²	23 ^o	7	11
49	7 ²	17 ^k	241	—	—	—	—	7 ^f	—	13 ^w

NUMERORUM.

65

γ	932	935	938	941	944	947	950	953	956	959
3	11 ⁿ	—	19	139	67	7y	—	13	—	29
9	83	13	—	—	7	—	—	191	67	11
11	17	11	—	—	19	53	7 ⁱ	—	23	—
17	31 ²	17	23	—	263	7 ²	13	—	—	—
21	73	41	7 ^g	—	—	11x	—	199	—	7v
23	13 ^v	—	17	61	7 ^{2o}	—	167	19 ^l	11	—
27	53	7 ^m	—	11 ^p	—	—	—	—	7 ⁱ	13 ^q
29	—	—	101	7 ^{2b}	89	43	11 ^r	13	—	—
33	7 ⁱ	11 ²	103	13 ²	—	61	29 ²	7	—	23 ^p
39	—	89	107	23	—	211	7	—	59	197
41	—	7 ^{2k}	11 ⁱ	47	—	17	101	67	7 ^g	37
47	7 ^{2f}	139	13	31	—	—	17	7 ^r	101	—
51	—	17	—	—	7 ^c	41	11	97	—	229
53	—	—	127	—	29	19	7 ⁿ	17 ^v	41	11 ^{2g}
57	—	—	17	7	11 ^m	13 ⁿ	19	167	23	—
59	179	—	47	13	59	7	23	11	17 ²	—
63	—	—	7 ^{2k}	17 ^l	—	193	—	47	271	7
69	11 ^t	7	37 ^p	—	17	97	13 ^v	—	7 ^x	19
71	19	137	—	7 ^f	13 ³	—	—	283	29	—
77	57	11 ^q	7	41	—	—	31	127	241	7
81	—	—	269	53	107	—	7 ^{b2}	11 ^{gk}	163	41
83	—	7 ^l	223	19	—	13 ^k	—	—	7	53
87	—	13 ^k	—	97	19	7 ^f	—	17 ^m	103	—
89	7	31	—	131	61	—	—	7	11	—
93	29	173	—	11	7	—	—	—	13 ^b	59
99	79	11 ^u	13 ^m	7	53	47	61	19	83	17

β	931	934	937	940	943	946	949	952	955	958
51	—	113	7 ^s	163	—	—	—	13 ^b	19 ^q	7
57	19	7 ^{g2}	29 ^r	—	157	103	269	—	7 ^{fb}	—
61	59	19	—	11 ^b	127	7	—	—	—	257
63	7	—	—	—	197	181	11 ^z	7 ^m	13	17
67	151	11 ^l	41	109	7 ^{gb}	137	23	—	227	37
69	—	151	13	19	11 ^k	41	7	47	—	—
73	23	211	79	7 ^z	19	17	37	—	31	—
79	—	—	7	—	—	13	17 ⁿ	—	11	7
81	11 ^p	—	191	13	7 ^A	73	19	151	—	—
87	—	—	—	7	37	—	43 ^q	—	61	11 ^k
91	7	—	71	37	11	25 ²	13	7	17	—
93	41	—	7	23	13 ^r	—	—	11	109	7 ²ⁱ
97	13 ^u	—	11	73	—	281	7 ^o	233	—	17
99	—	7 ⁱ²	97	—	—	11	—	157	7 ²	41

TAB. I. DIVISORES

α	960	963	966	969	972	975	978	981	984	987
1	—	23 ^r	—	7 ^E	13	—	11 ^b	—	19	89
7	19 ^m	193	7 ⁿ	—	11	281	47	17 ^l	—	7 ^s
11	67	19 ⁿ	17	—	41	—	7 ^z	13	—	—
13	—	7	11	199	—	13 ²	—	41 ^k	7 ^b	—
17	—	13 ^m	79	17	67	7	29	59	11 ^k	—
19	7 ^l	61	53	19	191	113	23	7 ^D	—	17
23	131	—	23	103	7 ^{bi}	—	11	—	13 ⁿ	269
29	109	—	13	7 ^t	11	17	—	—	—	—
31	13 ^y	—	7 ⁱ	—	—	7	19 ²	11 ²	257	—
37	137	—	41	31 ^r	7 ^l	11	227	13	173	—
41	11	7	241	13	—	103	—	17 ^k	7 ^a	293
43	—	13	—	7 ^f	47	23	—	—	—	19
47	7	23 ^s	127	29	31	—	—	7 ²	17	11 ^q
49	139	11 ⁱ	7	67	79	—	—	61	13	7
53	—	—	19	—	13	—	7 ²	11	—	17 ⁿ
59	—	167	163	—	—	7 ^{2f}	—	103	—	61
61	7	173	—	47	19	—	—	7 ⁿ	11	13 ^v
67	17	29	—	13	23	43	7 ^{fo}	89	—	283
71	23	11	—	7 ²	211	—	—	127	39	43
73	191	17	277	—	11 ⁿ	7 ^r	97	19	—	—
77	29	—	7 ²	37	89	—	13	31	19 ^v	7 ^C
79	—	31	11 ^{2b}	—	7 ^g	—	—	—	—	—
83	13 ⁱ	7 ⁱ	109	293	—	—	—	47	7 ^f	173
89	7 ²ⁿ	113	31	—	271	23	11 ²	7 ^{g2}	149	223
91	307	41	7 ⁱ	23	17 ^s	13	53	149	—	7 ^f
97	—	7 ^q	—	—	49	17	223	11 ^x	7	31
β	961	964	967	970	973	976	979	982	985	988
1	17	—	11 ^s	—	—	7 ^w	47	283	13	—
3	7	149	—	—	—	11 ⁱ	13 ^b	7	137	29
7	11	17 ^r	13 ^p	—	7	—	19	—	—	—
9	13	229	97	11	13 ^p	—	7 ^v	17 ^r	23	—
13	223	67	17	7	23	—	179	—	29 ^p	11 ^g
19	277	—	7 ^o	13 ^b	307	31 ^q	—	11	—	7 ⁱ
21	19	13	311	—	7	41	181	—	83	17
27	97	211	197	7 ^y	—	233	—	—	11 ^{g2}	37
31	7 ^m	—	—	11	13	17	—	7	37	23
33	251	73	7 ^e	19	131	89	11 ^l	23	—	7 ²
37	—	11 ²	—	23	19 ^q	163	7 ^b	193	211	—
39	127	7 ^k	—	—	11	251	37	31	7 ²	13
43	75	—	89	53	311	7 ^{gl}	—	17	—	97
49	—	43	—	107	7	—	41	19	11 ^{b2}	—

NUMERORUM.

67

y	962	965	968	971	974	977	980	983	986	989
3	17	11 ^m	7	—	257	41	23	197	151	7 ^v
9	23 ^q	7 ^b	131	19 ²	13 ^s	199	—	37	7	—
11	—	103	11 ^g	7	29	—	—	17	31	—
17	11	—	7	—	61	19 ⁿ	—	—	17	7 ^g
21	—	263	—	17 ^l	37	13	7 ^{fi}	—	—	31
23	—	7	—	13 ^m	—	72	83	—	7 ^w	11 ^k ²
27	41	—	—	—	11 ^b	7 ^k	61	—	—	—
29	7 ^s	83	37	23 ^o	—	—	167	7 ^f	19 ^l	—
33	—	37	11	137	7 ^m	17	13	107	53	19 ^o
39	11 ^g	19	179	7	139	43	17 ^w	29	—	—
41	157	29	113	11	—	7	—	43	—	163
47	109	11 ^u	—	19	7	13 ^w	—	—	23	—
51	29	7 ^g	—	—	19 ^k	239	71	11	7 ^b	53
53	101	—	23	7	—	67	31	59	47	—
57	7	—	—	—	41	11	—	7	13	17
59	—	223	7 ^B	—	—	29	13 ⁱ	41	11	7 ^u
63	—	61	13	11 ^s	—	59	7	19 ^m	—	—
69	—	11	157	—	29	7	281	—	—	13 ^k
71	7 ^b	269	75	—	11	—	101	78 ^k	79	19
77	43	13 ^{hi}	11	—	107	—	7	—	101	29
81	—	—	19	7	43	277	—	131	11	—
83	11	59	17 ^o	157	71	7 ^t	43	37	13	31 ²
87	73	—	7	—	13	—	11 ⁿ	—	29 ^o	7 ^x
89	—	—	13 ^l	17	7 ⁱ	—	47	—	—	11
93	—	7	—	83	11	19	233	61	7 ^k	—
99	7	29	11 ^k	37 ²	—	13	263	7	229	—

8	961	964	967	970	973	976	979	982	985	988
51	11	—	31	37 ^p	67	—	7 ²	—	139	41
57	—	—	—	71	13	— ²	23	—	67	11 ²ⁱ
61	13 ²	—	7 ^k	31 ²	11 ^r	61	—	97	—	7 ^l
63	23 ⁿ	19	—	29	7 ²	127	163	11	—	109
67	—	7	11 ⁱ	113	—	101	—	13	7	—
69	17	—	—	7 ⁱ	—	11 ^g	313	—	241	—
73	7 ^f	13 ^o	29 ^q	—	—	—	—	7 ^B	—	—
79	—	—	—	193	—	19 ^r	7	23	13	11 ^z
81	—	7 ^{2f}	17	—	—	23 ^m	13	29	7	61
87	— ^{2g}	—	—	17	—	—	—	7 ⁱ	311	—
91	43	47	151	79	7	11 ^y	29 ^m	227	19	13
93	29 ^m	—	43	151	17 ²	211	7	13	11	—
97	19 ^t	—	—	7 ^{fg}	—	151	43 ²	—	—	—
99	—	13 ²	—	89	173	7 ^b	11 ^s	—	43	—

<i>a</i>	990	993	996	999	1002	1005	1008	1011	1014	1017
1	7	199	103	—	97	—	—	7g	31	—
7	181	13	—	—	—	11	7	—	23	19 ^r
11	11	47	—	7 ²	23	—	—	—	—	17 ^m
13	—	19	23 ^t	11 ^m	—	7y	73	—	13 ^l	37
17	—	—	7 ² i	41	13 ²	—	181	—	37	7f
19	83	11	13 ^x	163	7C	—	41	—	—	—
23	—	7 ²	—	—	31 ^r	—	—	11l	7	—
29	7 ² p	71	67	—	73	11gi	—	7	—	23
31	167	17	7p	13	113	229	59	23	11	7
37	97	7k	17	37 ²	—	—	11z	19	7p	—
41	—	11 ²	37	139	59	7 ^r	13	—	19 ²	—
43	7	41	—	17	11g	29	31	7	61	71
47	13i	—	251	89	7	—	—	41	229	—
49	37	—	11	127	17	—	7	—	—	—
53	—	73	227	7E	29	193	—	13m	11k	97
59	17	13	7k	19	107	—	11 ^r	—	71	7
61	23 ^s	67	—	—	7	227	17 ²	—	241	11 ² l
67	157	—	—	7	—	19 ^u	13	11b	—	149
71	7	—	11gh	—	—	163	19	7A	29	—
73	13	43	7l	257	197	11o	149	—	17q	7 ² m
77	11	—	263	17	149	43	7	23 ^r	—	13
79	—	7	—	11t	—	23	281	13p	7 ² i	17
83	—	23l	83	13	17 ²	7	79	—	—	11i
89	—	19	—	—	7	17 ^t	233	11	—	—
91	197	—	131	—	—	—	7 ² l	47	13n	137
97	41	—	13	19 ²	—	7	163	—	11	—

<i>B</i>	991	994	997	1000	1003	1006	1009	1012	1015	1018
1	113	—	7	11	19	29	23o	17	—	7
3	—	107	179	—	7 ² k	37	11	—	—	13o
7	23 ^m	7f	—	97	37	15v	—	—	7b	—
9	—	—	—	7 ² g	11 ²	—	19q	—	83	61
13	7	89	—	103	—	—	—	7i	—	17r
19	—	37	—	—	43	239	7g	127	11 ²	29
21	11	7 ²	—	29	13	—	43	—	7	19k
27	7 ² b	19	31	23	41	47	—	7	—	11
31	—	—	19 ^l	—	7f	103	—	13 ²	—	79
33	—	17	—	167	—	13	7	11	—	—
37	—	13	11	7 ² m	269	157	—	67	—	—
39	—	—	17	71	19	7f	193	29	59	—
43	11	277	7	—	—	19	—	137	13w	7
49	—	7	13	—	23	—	29s	103	7z	11q

NUMERORUM.

γ	992	995	998	1001	1004	1007	1010	1013	1016	1019
3	13 ²	19	11 ^p	—	—	—	7 ^q	17 ^s	—	181
9	11 ^l	151	—	—	31 ^o	7	—	13	17 ^p	101
11	7	191	151	11 ⁱ	—	13 ^t	83	7 ^o	—	223
17	47	11 ^y	—	53	—	23 ^l	17	71	30 ^r	—
21	13	23	173	7	137	47	—	11 ^t	13	—
23	—	—	—	59	233	7	13 ⁱ	—	151	227
27	67	—	78	223	29	11	—	19	—	7
29	13 ^b	—	—	—	7	263	31	107	11	—
33	—	7 ^s	—	11	67	—	71	—	7	13
39	7	11	—	13	47	131	23 ²	7 ^m	37 ^o	—
41	—	13 ²ⁱ	7 ^b	239	11 ^k	—	79	—	—	7
47	61	7	11 ^l	17 ^p	—	—	37	—	78	97
51	—	—	31	—	13	7 ⁿ	—	43	11	269
53	7 ^f	113	13	—	17 ⁱ	53	139	7	—	43
57	—	29	61	47	7 ^F	19	11	79	59	—
59	—	—	—	37	—	17	7	—	277	118 ^k
63	17	—	37	7 ^o	11	13 ^k	—	—	—	—
69	53	17	7 ^f	—	—	—	211	167	19	7 ²
71	37	—	—	109	7 ^m	11	53	17 ^u	293	107
77	—	—	—	7 ^f	13 ^s	179	61	—	17	—
81	7 ^g	—	—	17 ^v	89	31	—	7 ²	—	11 ^w
83	101	11 ²	7 ⁱ	—	—	97	271	—	23	7 ^b
87	43	53	59	19	17 ^k	—	7 ²	11 ^g	61	—
89	—	7 ^o	23 ^p	—	317	13	—	53	7 ^w	79
93	31	13 ^q	191	—	—	7 ^{2f}	43	41	—	29
99	109	137	283	11	7 ⁱ	—	17 ⁱ	—	13	—

β	991	994	997	1000	1003	1006	1009	1012	1015	1018
51	13 ^l	11	23	7	17	251	157	19 ^w	173	179
57	229	271	7	—	—	17 ^m	—	13	41	7
61	17 ⁱ	79	—	13 ^p	—	11	7	109	—	37
63	53	78	67	47	—	43	17	131	7 ^f	—
67	131	17	—	11 ²	167	7 ^w	31	—	47	23 ^p
69	7 ^m	—	19 ^s	—	29	—	11 ^u	7 ^{bk}	13 ²	—
73	—	11	17	19 ^k	78	—	37	—	—	—
79	41 ²	31	113	7 ^{l2}	—	83	241	—	157	—
81	—	53	11 ^q	41	37	7 ⁱ	—	—	—	13 ^b
87	11 ^v	—	—	13	7	107	—	—	29 ^m	137
91	—	7 ^t	73	101	—	17	11	199	7 ^k	—
93	281	37	—	7 ^x	—	—	23	—	19	11 ^s
97	7 ⁿ	—	23	199	11	101	13 ^b	7 ^l	283	19 ^m
99	19 ^k	29 ^q	7 ^r	31	13	—	—	11	—	7

1	3	5	7	11	13	17	19	23
2	6	10	14	22	26	34	38	46
3	9	15	21	33	39	51	57	69
4	12	20	28	44	52	68	76	92
5	15	25	35	55	65	85	95	115
6	18	30	42	66	78	102	114	138
7	21	35	49	77	91	119	133	161
8	24	40	56	88	104	136	152	184
9	27	45	63	99	117	153	171	207
10	30	50	70	110	130	170	190	230

1	61	67	71	73	79	83	89	97
2	122	134	142	146	158	166	178	194
3	183	201	213	219	237	249	267	291
4	244	268	284	292	316	332	356	388
5	305	335	355	365	395	415	445	485
6	366	402	426	438	474	498	534	582
7	427	469	497	511	553	581	623	679
8	488	536	568	584	632	664	712	776
9	549	603	639	657	711	747	801	873
10	610	670	710	730	790	830	890	970

1	139	149	151	157	163	167	173	179
2	278	298	302	314	326	334	346	358
3	417	447	453	471	489	501	519	537
4	556	596	604	628	652	668	692	716
5	695	745	755	785	815	835	865	895
6	834	894	906	942	978	1002	1038	1074
7	973	1043	1057	1099	1141	1169	1211	1253
8	1112	1192	1208	1256	1304	1336	1384	1432
9	1251	1341	1359	1413	1467	1503	1557	1611
10	1390	1490	1510	1570	1630	1670	1730	1790

1	220	233	239	241	251	257	263	269
2	458	466	478	482	502	514	526	538
3	687	699	717	723	753	771	789	807
4	916	932	956	964	1004	1028	1052	1076
5	1145	1165	1195	1205	1255	1285	1315	1345
6	1374	1398	1434	1446	1506	1542	1578	1614
7	1603	1631	1673	1687	1757	1799	1841	1883
8	1832	1864	1912	1928	2008	2056	2104	2152
9	2061	2097	2151	2169	2259	2313	2367	2421
10	2290	2330	2390	2410	2510	2570	2630	2690

NUMERORUM PRIMORUM.

71

1	29	31	37	41	43	47	53	59
2	58	62	74	82	86	94	106	118
3	87	93	111	123	129	141	159	177
4	116	124	148	164	172	188	212	236
5	145	155	185	205	215	235	265	295
6	174	186	222	246	258	282	318	354
7	203	217	259	287	301	329	371	413
8	232	248	296	328	344	376	424	472
9	261	279	333	369	387	423	477	531
10	290	310	370	410	430	470	530	590

1	101	103	107	109	113	127	131	137
2	202	206	214	218	226	254	262	274
3	303	309	321	327	339	381	393	411
4	404	412	428	436	452	508	524	548
5	505	515	535	545	565	635	655	685
6	606	618	642	654	676	762	786	822
7	707	721	749	763	791	889	917	959
8	808	824	856	872	904	1016	1048	1096
9	909	927	963	981	1017	1143	1179	1233
10	1010	1030	1070	1090	1130	1270	1310	1370

1	181	191	193	197	199	211	223	227
2	362	382	386	394	398	422	446	454
3	543	573	579	591	597	633	669	681
4	724	764	772	788	796	844	892	908
5	905	955	965	985	995	1055	1115	1135
6	1086	1146	1158	1182	1194	1266	1338	1362
7	1267	1337	1351	1379	1393	1477	1561	1589
8	1448	1528	1544	1576	1592	1688	1784	1816
9	1629	1719	1737	1773	1791	1899	2007	2043
10	1810	1910	1930	1970	1990	2110	2230	2270

1	271	277	281	283	293	307	311	313
2	542	554	562	566	586	614	622	626
3	813	831	843	849	879	921	933	939
4	1084	1108	1124	1132	1172	1228	1244	1252
5	1355	1385	1405	1415	1465	1535	1555	1565
6	1626	1662	1686	1698	1758	1842	1866	1878
7	1897	1939	1967	1981	2051	2149	2177	2191
8	2168	2216	2248	2264	2344	2456	2488	2504
9	2439	2493	2529	2547	2637	2763	2799	2817
10	2710	2770	2810	2830	2930	3070	3110	3130

TAB. III.
NUMERI EX PRIMIS FACTI.

7.	11.	13.	17.	19.	23.	29	=	215656441.
31.	37.	41.	43.	47			=	95041567.
53.	59.	61.	67.	71			=	907383479.
73.	79.	83.	89.	97			=	4132280413.
101.	103.	107.	109.	113			=	13710311357.
127.	131.	137.	139.	149			=	47205940259.
151.	157.	163.	167.	173			=	111641786731.

TAB. IV.
TERMINATIONES QUADRATORUM
IMPARIUM.

001	121	241	301	481	601	721	841	961
009	129	249	369	489	609	729	849	969
025	—	—	—	—	625	—	—	—
041	161	281	401	521	641	761	881	
049	169	289	409	529	649	769	889	
081	201	321	441	561	681	801	921	
089	209	329	449	569	689	809	929	
—	225	—	—	—	—	—	—	—

TAB. V.
DIFFERENTIAE DUORUM QUADRATORUM.

A	=	12	m	—	1	=	$36a^2$	—	$(2b+1)^2$
A	=	12	m	+	1	=	$(2b+1)^2$	—	$36a^2$
A	=	12	m	—	5	=	$4a^2$	—	$9(2b+1)^2$
A	=	12	m	+	5	=	$9(2b+1)^2$	—	$4a^2$

TAB. VI. NUMERI PRIMI.

1	191	443	727	1021	1319	1627
2	93	49	33	31	21	37
3	97	57	39	33	27	57
5	99	61	43	39	61	63
7	211	63	51	49	67	67
11	23	67	57	51	73	69
13	27	79	61	61	81	93
17	29	87	69	63	99	97
19	33	91	73	69	1409	99
23	39	99	87	87	23	1709
29	41	503	97	91	27	21
31	51	9	809	93	29	23
37	57	21	11	97	33	33
41	63	23	21	1103	39	41
43	69	41	23	09	47	47
47	71	47	27	17	51	53
53	77	57	29	23	53	59
59	81	63	39	29	59	77
61	83	69	53	51	71	83
67	93	71	57	53	81	87
71	307	77	59	63	83	89
73	11	87	63	71	87	1801
79	13	93	77	81	89	11
83	17	99	81	87	93	23
89	31	601	83	93	99	31
97	37	7	87	1201	1511	47
101	47	13	907	13	23	61
3	49	17	11	17	31	67
7	53	19	19	23	43	71
9	59	31	29	29	49	73
13	67	41	37	31	53	77
27	73	43	41	37	59	79
31	79	47	47	49	67	89
37	83	53	53	59	71	1901
39	89	59	67	77	79	07
49	97	61	71	79	83	13
51	401	73	77	83	97	31
57	9	77	83	89	1601	33
63	19	83	91	91	07	49
67	21	91	97	97	09	51
73	31	701	1009	1301	13	73
79	33	9	13	03	19	79
81	39	19	19	07	21	87

K

7019	7477	7823	8231	8629	9001	9391
27	81	29	33	41	07	97
39	87	41	37	47	11	9403
43	89	53	43	63	13	13
57	99	67	63	69	29	19
69	7507	73	69	77	41	21
79	17	77	73	81	43	31
7103	23	79	87	89	49	33
09	29	83	91	93	59	37
21	37	7901	93	99	67	39
27	41	07	97	8707	91	61
29	47	19	8311	13	9103	63
51	49	27	17	19	09	67
59	59	33	29	31	27	73
77	61	37	53	37	33	79
87	73	49	63	41	37	91
93	77	51	69	47	51	97
7207	83	63	77	53	57	9511
11	89	93	87	61	61	21
13	91	8009	89	79	73	33
19	7003	11	8419	83	81	39
29	07	17	23	8833	87	47
37	21	39	29	07	99	51
43	39	53	31	19	9203	87
47	43	59	43	21	09	9601
53	49	69	47	31	21	13
83	69	81	61	37	27	19
97	73	87	67	39	39	23
7307	81	89	8501	49	41	29
09	87	93	13	61	57	31
21	91	8101	21	63	77	43
31	99	11	27	67	81	49
33	7703	17	37	87	83	61
49	17	23	39	93	93	77
51	23	47	43	8923	9311	79
69	27	61	63	29	19	89
93	41	67	73	33	23	97
7411	53	71	81	41	37	9719
17	57	79	97	51	41	21
33	59	91	99	63	43	33
51	89	8209	8609	69	49	39
57	93	19	23	71	71	43
59	7817	21	27	99	77	49

9767	10159	10567	10979	11399	11831	12239
69	63	89	87	11411	33	41
81	69	97	93	23	39	51
87	77	10601	11003	37	63	53
91	81	07	27	43	67	63
9803	93	13	47	47	87	69
11	10211	27	57	67	97	77
17	23	31	59	71	11903	81
29	43	39	69	83	09	89
33	47	51	71	89	23	12301
39	53	57	83	91	27	23
51	59	63	87	97	33	29
57	67	67	93	11503	39	43
59	71	87	11113	19	41	47
71	73	91	17	27	53	73
83	89	10709	19	49	59	77
87	10301	11	31	51	69	79
9901	03	23	49	79	71	91
07	13	29	59	87	81	12401
23	21	33	61	93	87	09
29	31	39	71	97	12007	13
31	33	53	73	11617	11	21
41	37	71	77	21	37	33
49	43	81	97	33	41	37
67	57	89	11213	57	43	51
73	69	99	39	77	49	57
10007	91	10831	43	81	71	73
09	99	37	51	89	73	79
37	10427	47	57	99	97	87
39	29	53	61	11701	12101	91
61	33	59	73	17	07	97
67	53	61	79	19	09	12503
69	57	67	87	31	13	11
79	59	83	99	43	19	17
91	63	89	11311	77	43	27
93	77	91	17	79	49	39
99	87	10903	21	83	57	41
10103	99	09	29	89	61	47
11	10501	37	51	11801	63	53
33	13	39	53	07	97	69
39	29	49	69	13	12203	77
41	31	57	83	21	11	83
51	59	73	93	27	27	89

12601	13001	13417	13829	14293	14699	15091
11	03	21	31	14303	14713	15101
13	07	41	41	21	17	07
19	09	51	59	23	23	21
37	33	57	73	27	31	31
41	37	63	77	41	37	37
47	43	69	79	47	41	39
53	49	77	83	69	47	49
59	63	87	13901	87	53	61
71	93	99	03	89	59	73
89	99	13513	07	14401	67	87
97	13103	23	15	07	71	93
12703	09	37	21	11	79	99
13	21	53	31	19	83	15217
21	27	67	33	23	97	27
39	47	77	63	31	14813	33
43	51	91	67	37	21	41
57	59	97	97	47	27	59
63	63	13613	99	49	31	63
81	71	19	14009	61	43	69
91	77	27	11	79	51	71
99	83	33	29	89	67	77
12809	87	49	33	14503	69	87
21	13217	69	51	19	79	89
23	19	79	57	33	87	99
29	29	81	71	37	91	15307
41	41	87	81	43	97	13
53	49	91	83	49	14923	19
89	59	93	87	51	29	29
93	67	97	14107	57	39	31
99	91	13709	43	61	47	49
12907	97	11	49	63	51	59
11	13309	21	53	91	57	61
17	13	23	59	93	69	73
19	27	29	73	14621	83	77
23	31	51	77	27	15013	83
41	37	57	97	29	17	91
53	39	59	14207	33	31	15401
59	67	63	21	39	53	13
67	81	81	43	53	61	27
73	97	89	49	57	73	39
79	99	99	51	69	77	43
83	13411	13807	81	83	83	51

P R I M I.

15461	15877	16301	16741	17183	17579	17989
67	81	19	47	89	81	18013
73	87	33	59	91	97	41
93	89	39	63	17203	99	45
97	15901	49	87	07	17609	47
15511	07	61	16811	09	23	49
27	13	63	23	31	27	59
41	19	69	29	39	57	61
51	23	81	31	57	59	77
59	37	16411	43	91	69	89
69	59	17	71	93	81	97
81	71	21	79	99	83	18119
83	73	27	83	17317	17707	21
15601	91	33	89	21	13	27
07	16001	47	16901	27	29	31
19	07	51	03	33	37	33
29	33	53	21	41	47	43
41	57	77	27	51	49	49
43	61	81	31	59	61	69
47	63	87	37	77	83	81
49	67	93	43	83	89	91
61	69	16519	63	87	91	99
67	73	29	79	89	17807	18211
71	87	47	81	93	27	17
79	91	53	87	17401	37	23
83	97	61	93	17	39	29
15727	16103	67	17011	19	51	33
31	11	73	21	31	63	51
33	27	16603	27	43	81	53
37	39	07	29	49	91	57
39	41	19	33	67	17903	69
49	83	31	41	71	09	87
61	87	33	47	77	11	89
67	89	49	53	83	21	18301
73	93	51	77	89	23	07
87	16217	57	93	91	29	11
91	23	61	99	97	39	13
97	29	73	17:07	17509	57	29
15803	31	91	17	19	59	41
09	49	93	23	39	71	53
17	53	99	37	51	77	67
23	67	16703	59	69	81	71
59	73	29	67	73	87	79

TAB. III.
NUMERI EX PRIMIS FACTI.

7.	11.	13.	17.	19.	23.	29	=	215656441.
31.	37.	41.	43.	47			=	95041567.
53.	59.	61.	67.	71			=	907383479.
73.	79.	83.	89.	97			=	4132280413.
101.	103.	107.	109.	113			=	13710311357.
127.	131.	137.	139.	149			=	47205940259.
151.	157.	163.	167.	173			=	111641786731.

TAB. IV.
TERMINATIONES QUADRATORUM
IMPARIUM.

001	121	241	301	481	601	721	841	961
009	129	249	369	489	609	729	849	969
025	—	—	—	—	625	—	—	—
041	161	281	401	521	641	761	881	
049	169	289	409	529	649	769	889	
081	201	321	441	561	681	801	921	
089	209	329	449	569	689	809	929	
—	225	—	—	—	—	—	—	

TAB. V.
DIFFERENTIAE DUORUM QUADRATORUM.

A	=	12	m	—	1	=	$36a^2$	—	$(2b+1)^2$
A	=	12	m	+	1	=	$(2b+1)^2$	—	$36a^2$
A	=	12	m	—	5	=	$4a^2$	—	$9(2b+1)^2$
A	=	12	m	+	5	=	$9(2b+1)^2$	—	$4a^2$

TAB. VI. NUMERI PRIMI.

1	191	443	727	1021	1319	1627
2	93	49	33	31	21	37
3	97	57	39	33	27	57
5	99	61	43	39	61	63
7	211	63	51	49	67	67
11	23	67	57	51	73	69
13	27	79	61	61	81	93
17	29	87	69	63	99	97
19	33	91	73	69	1409	99
23	39	99	87	87	23	1709
29	41	503	97	91	27	21
31	51	9	809	93	29	23
37	57	21	11	97	33	33
41	63	23	21	1103	39	41
43	69	41	23	09	47	47
47	71	47	27	17	51	53
53	77	57	29	23	53	59
59	81	63	39	29	59	77
61	83	69	53	51	71	83
67	93	71	57	53	81	87
71	307	77	59	63	83	89
73	11	87	63	71	87	1801
79	13	93	77	81	89	11
83	17	99	81	87	93	23
89	31	601	83	93	99	31
97	37	7	87	1201	1511	47
101	47	13	907	13	23	61
3	49	17	11	17	31	67
7	53	19	19	23	43	71
9	59	31	29	29	49	73
13	67	41	37	31	53	77
27	73	43	41	37	59	79
31	79	47	47	49	67	89
37	83	53	53	59	71	1901
39	89	59	67	77	79	07
49	97	61	71	79	83	13
51	401	73	77	83	97	31
57	9	77	83	89	1601	33
63	19	83	91	91	07	49
67	21	91	97	97	09	51
73	31	701	1009	1301	13	73
79	33	9	13	03	19	79
81	39	19	19	07	21	87

1993	2311	2671	2999	3359	3697	4051
97	33	77	3001	61	3701	57
99	39	83	11	71	09	73
2003	41	87	19	73	19	79
11	47	89	23	89	27	91
17	51	93	37	91	33	93
27	57	99	41	3407	39	99
29	71	2707	49	13	61	4111
39	77	11	61	33	67	27
53	81	13	67	49	69	29
63	83	19	79	57	79	33
69	89	29	83	61	93	39
81	93	31	89	63	97	53
83	99	41	3109	67	3803	57
87	2411	49	19	69	21	59
89	17	53	21	91	23	77
99	23	67	37	99	33	4201
2111	37	77	63	3511	47	11
13	41	89	67	17	51	17
29	47	91	69	27	53	19
31	59	97	81	29	63	29
37	67	2801	87	33	77	31
41	73	03	91	39	81	41
43	77	19	3203	41	89	43
53	2503	33	09	47	3907	53
61	21	37	17	57	11	59
79	31	43	21	59	17	61
2203	39	51	29	71	19	71
07	43	57	51	81	23	73
13	49	61	53	83	29	83
21	51	79	57	93	31	89
37	57	87	59	3607	43	97
39	79	97	71	13	47	4327
43	91	2903	99	17	67	37
51	93	09	3301	23	89	39
67	2609	17	07	31	4001	49
69	17	27	13	37	03	57
73	21	39	19	43	07	63
81	33	53	23	59	13	73
87	47	57	29	71	19	91
93	57	63	31	73	21	97
97	59	69	43	77	27	4409
2309	63	71	47	91	49	21

P R I M I .

4423	4793	5167	5527	5879	6277	6673
41	99	71	31	81	87	79
47	4801	79	57	97	99	89
51	13	89	63	5903	6301	91
57	17	97	69	23	11	6701
63	31	5209	73	27	17	03
81	61	27	81	39	23	09
83	71	31	91	53	29	19
93	77	33	5623	81	37	33
4507	89	37	39	87	43	37
13	4903	61	41	6007	53	61
17	09	73	47	11	59	63
19	19	79	51	29	61	79
23	31	81	53	37	67	81
47	33	97	57	43	73	91
49	37	5303	59	47	79	93
61	43	09	69	53	89	6803
67	51	23	83	67	97	23
83	57	33	89	73	6421	27
91	67	47	93	79	27	29
97	69	51	5701	89	49	33
4003	73	81	11	91	51	41
21	87	87	17	6101	69	57
37	93	93	37	13	73	63
39	99	99	41	21	81	69
43	5003	5407	43	31	91	71
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57	21	19	83	51	47	6907
63	23	31	91	63	51	11
73	39	37	5801	73	53	17
79	51	41	07	97	63	47
91	59	43	13	99	69	49
4703	77	49	21	6203	71	59
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23	87	77	39	17	81	67
29	99	79	43	21	99	71
33	5101	83	49	29	6607	77
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83	19	07	61	63	53	97
87	47	19	67	99	59	7001
89	53	21	69	71	61	13

7019	7477	7823	8231	8629	9001	9391
27	81	29	33	41	07	97
39	87	41	37	47	11	9403
43	89	53	43	63	13	13
57	99	67	63	69	29	19
69	7507	73	69	77	41	21
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7103	23	79	87	89	49	33
09	29	83	91	93	59	37
21	37	7901	93	99	67	39
27	41	07	97	8707	91	61
29	47	19	8311	13	9103	63
51	49	27	17	19	09	67
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77	61	37	53	37	33	79
87	73	49	63	41	37	91
93	77	51	69	47	51	97
7207	83	63	77	53	57	9511
11	89	93	87	61	61	21
13	91	8009	89	79	73	33
19	7603	11	8419	83	81	39
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37	21	39	29	07	99	51
43	39	53	31	19	9203	87
47	43	59	43	21	09	9601
53	49	69	47	31	21	13
83	69	81	61	37	27	19
97	73	87	67	39	39	23
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21	91	8101	21	63	77	43
31	99	11	27	67	81	49
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69	27	61	63	29	19	89
93	41	67	73	33	23	97
7411	53	71	81	41	37	9719
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51	89	8209	8609	69	49	39
57	93	19	23	71	71	43
59	7817	21	27	99	77	49

9767	10159	10567	10979	11399	11831	12239
69	63	89	87	11411	33	41
81	69	97	93	23	39	51
87	77	10601	11003	37	63	53
91	81	07	27	43	67	63
9803	93	13	47	47	87	69
11	10211	27	57	67	97	77
17	23	31	59	71	11903	81
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33	47	51	71	89	23	12301
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59	71	87	11113	19	41	47
71	73	91	17	27	53	73
83	89	10709	19	49	59	77
87	10301	11	31	51	69	79
9901	03	23	49	79	71	91
07	13	29	59	87	81	12401
23	21	33	61	93	87	09
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31	33	53	73	11617	11	21
41	37	71	77	21	37	33
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67	57	89	11213	57	43	51
73	69	99	39	77	49	57
10007	91	10831	43	81	71	73
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37	10427	47	57	99	97	87
39	29	53	61	11701	12101	91
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67	53	61	79	19	09	12503
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91	63	89	11311	77	43	27
93	77	91	17	79	49	39
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10103	99	09	29	89	61	47
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39	29	49	69	13	12203	77
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47	43	69	79	47	41	39
53	49	77	83	69	47	49
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71	93	99	03	89	59	73
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97	13103	23	13	07	71	93
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39	47	77	63	31	14813	33
43	51	91	67	37	21	41
57	59	97	97	47	27	59
63	63	13613	99	49	31	63
81	71	19	14009	61	43	69
91	77	27	11	79	51	71
99	83	33	29	89	67	77
12809	87	49	33	14503	69	87
21	13217	69	51	19	79	89
23	19	79	57	33	87	99
29	29	81	71	37	91	15307
41	41	87	81	43	97	13
53	49	91	83	49	14923	19
89	59	93	87	51	29	29
93	67	97	14107	57	39	31
99	91	13709	43	61	47	49
12907	97	11	49	63	51	59
11	13309	21	53	91	57	61
17	13	23	59	93	69	73
19	27	29	73	14621	83	77
23	31	51	77	27	15013	83
41	37	57	97	29	17	91
53	39	59	14207	33	31	15401
59	67	63	21	39	53	13
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73	97	89	49	57	73	39
79	99	99	51	69	77	43
83	13411	13807	81	83	83	51

P R I M I.

15461	15877	16301	16741	17183	17579	17989
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93	89	39	63	17203	99	45
97	15901	49	87	07	17609	47
15511	07	61	16811	09	23	49
27	13	63	23	31	27	59
41	19	69	29	39	57	61
51	23	81	31	57	59	77
59	37	16411	43	91	69	89
69	59	17	71	93	81	97
81	71	21	79	99	83	18119
83	73	27	83	17317	17707	21
15601	91	33	89	21	13	27
07	16001	47	16901	27	29	31
19	07	51	03	33	37	33
29	33	53	21	41	47	43
41	57	77	27	51	49	49
43	61	81	31	59	61	69
47	63	87	37	77	83	81
49	67	93	43	83	89	91
61	69	16519	63	87	91	99
67	73	29	79	89	17807	18211
71	87	47	81	93	27	17
79	91	53	87	17401	37	23
83	97	61	93	17	39	29
15727	16103	67	17011	19	51	33
31	11	73	21	31	63	51
33	27	16603	27	43	81	53
37	39	07	29	49	91	57
39	41	19	33	67	17903	69
49	83	31	41	71	09	87
61	87	33	47	77	11	89
67	89	49	53	83	21	18301
73	93	51	77	89	23	07
87	16217	57	93	91	29	11
91	23	61	99	97	39	13
97	29	73	17:07	17509	57	29
15803	31	91	17	19	59	41
09	49	93	23	39	71	53
17	53	99	37	51	77	67
23	67	16703	59	69	81	71
59	73	29	67	73	87	79

18397	18899	19379	19753	20147	20593	21019
18401	18911	81	59	49	99	23
13	13	87	63	61	20611	31
27	17	91	77	73	27	59
33	19	19403	93	77	39	61
39	47	17	19801	83	41	67
43	59	21	13	20201	63	89
51	73	23	19	19	81	21101
57	79	27	41	31	93	07
61	19001	29	43	33	20707	21
81	09	33	53	49	17	39
93	13	41	61	61	19	43
18503	31	47	67	69	31	49
17	37	57	89	87	43	57
21	51	63	91	97	47	63
23	69	69	19913	20323	49	69
39	73	71	19	27	53	79
41	79	77	27	33	59	87
53	81	83	37	41	71	91
83	87	89	49	47	73	93
87	19121	19501	61	53	89	21211
93	39	07	63	57	20807	21
18617	41	31	73	59	09	27
37	57	41	79	69	49	47
61	63	43	91	89	57	69
71	81	53	93	93	73	77
79	83	59	97	99	79	83
91	19207	71	20011	20407	87	21313
18701	11	77	21	11	97	17
13	13	83	23	31	99	19
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31	31	19603	47	43	21	41
43	37	09	51	77	29	47
49	49	61	63	79	39	77
57	59	81	71	83	47	79
73	67	87	89	20507	59	83
87	73	97	20101	09	63	91
93	89	99	07	21	81	97
97	19301	19709	13	33	83	21401
18803	09	17	17	43	21001	07
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59	33	39	29	51	13	33
69	73	51	43	63	17	67

TAB. VI. NUMERI PRIMI.

81

21481	21851	22273	22709	23099	23581	23977
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93	71	83	27	43	23603	24001
99	81	91	39	59	09	07
21503	93	22303	41	67	23	19
17	21911	07	51	73	27	23
21	29	43	69	89	29	29
23	37	49	77	97	33	43
29	43	67	83	23201	63	49
57	61	69	87	03	69	61
59	77	81	22807	09	71	71
63	91	91	11	27	77	77
69	97	97	17	51	87	83
77	22003	22409	53	69	89	91
87	13	33	59	79	23719	97
89	27	41	61	91	41	24103
99	31	47	71	93	43	07
21601	37	53	77	97	47	09
11	39	69	22901	23311	53	13
13	51	81	07	21	61	21
17	63	83	21	27	67	33
47	67	22501	37	33	73	37
49	73	11	43	39	89	51
61	79	31	61	57	23801	69
73	91	41	63	69	13	79
83	93	43	73	71	19	81
21701	22109	49	93	99	27	97
13	11	67	23003	23417	31	24203
27	23	71	11	31	33	23
37	29	73	17	47	57	29
39	33	22613	21	59	69	39
51	47	19	27	73	73	47
57	53	21	29	97	79	51
67	57	37	39	23509	87	81
73	59	39	41	31	93	24317
87	71	43	53	37	99	29
99	89	51	57	39	23909	37
21803	93	69	59	49	11	59
17	22229	79	63	57	17	71
21	47	91	71	61	29	73
39	59	97	81	63	57	79
41	71	99	87	67	71	91

L

24407	24907	25343	25771	26209	16681	27061
13	17	49	93	27	83	67
19	29	57	99	37	87	73
21	23	67	25801	49	93	77
39	43	73	19	51	99	91
43	53	91	41	61	26701	27103
69	67	25409	47	63	11	07
73	71	11	49	67	13	09
81	77	23	67	93	17	27
99	79	39	73	97	23	43
24509	89	47	89	26309	29	79
17	15013	53	25903	17	31	91
27	31	57	13	21	37	97
33	33	63	19	39	59	27211
47	37	69	31	47	77	39
51	57	71	33	57	83	41
71	73	25523	39	71	26801	53
93	87	37	43	87	13	59
24611	97	41	51	93	21	71
23	25111	61	69	99	33	77
31	17	77	81	26407	39	81
59	21	79	97	17	49	83
71	27	83	99	23	61	99
77	47	89	26003	31	63	27329
83	53	25601	17	37	79	37
91	63	03	21	49	81	61
97	69	09	29	59	91	67
24709	71	21	41	79	93	97
33	83	33	53	89	26903	17407
49	89	39	83	97	21	09
63	25219	43	99	26501	27	27
67	29	57	26107	13	47	31
81	37	67	11	39	51	37
93	43	73	13	57	53	49
99	47	79	19	61	59	57
24809	53	93	41	73	81	79
21	61	25703	53	91	87	81
41	25301	17	61	97	93	87
47	03	33	71	26627	27011	27509
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59	09	47	83	41	31	29
77	21	59	89	47	43	39
89	39	63	26203	69	59	41

27551	27567	28447	28817	29287	29753	30211
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27611	28001	93	59	11	89	53
17	19	99	67	27	29803	59
31	27	28513	71	33	19	69
47	31	17	79	39	33	71
53	51	37	28901	47	37	93
73	57	41	09	63	51	30307
89	69	47	21	83	63	13
91	81	49	27	87	67	19
97	87	59	33	89	73	23
27701	97	71	49	99	79	41
33	99	73	61	29401	81	47
37	28109	79	79	11	29917	67
39	11	91	29009	23	21	89
43	23	97	17	29	27	91
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67	83	21	33	73	89	49
73	28201	27	59	83	30011	67
79	11	31	63	29501	13	69
91	19	43	77	27	29	91
93	29	49	29101	31	47	93
99	77	57	23	37	59	97
27803	79	61	29	67	71	30509
09	83	63	31	69	89	17
17	89	69	37	73	91	29
23	97	87	47	81	97	39
27	28307	97	53	87	30103	53
47	09	28703	67	99	09	57
51	19	11	73	29611	13	59
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93	51	29	91	33	33	93
27901	87	51	29201	41	37	30631
17	93	53	07	63	39	37
19	28403	59	09	69	61	43
41	09	71	21	71	69	49
43	11	89	31	83	81	61
47	29	93	43	29717	87	71
53	33	28807	51	23	97	77
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27	77	07	89	97	39	53
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63	83	43	32117	07	57	77
73	89	49	19	31	69	91
81	93	57	41	33	71	33403
30803	31219	63	43	37	83	09
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17	31	87	73	63	93	27
29	37	99	83	69	99	57
39	47	31721	89	73	33013	61
41	49	23	91	79	23	69
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53	59	29	13	32603	37	87
59	67	41	33	09	49	93
69	71	51	37	11	53	33503
71	77	69	51	21	71	21
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30911	21	99	97	53	91	47
31	27	31817	99	87	33107	63
37	33	47	32303	93	13	69
41	37	49	09	32707	19	77
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71	79	73	23	17	51	87
77	87	83	27	19	61	89
83	91	91	41	49	79	99
31013	93	31907	53	71	81	33601
19	97	57	59	79	91	13
33	31469	63	63	83	99	17
39	77	73	69	89	33203	19
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69	31511	32003	81	03	47	37
79	13	09	32401	31	87	41
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91	31	29	13	39	33301	79
31121	41	51	23	43	11	33703
23	43	57	29	69	17	13
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33739	34213	34613	35089	35533	36013	36497
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27	03	29	35201	77	37	99
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71	51	63	67	59	36209	53
89	61	81	79	71	17	71
93	67	34807	81	97	29	77
33911	69	19	91	35801	41	83
23	81	41	35311	03	51	91
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37	21	47	23	31	69	36709
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61	39	71	39	39	93	21
67	57	77	53	51	99	39
97	69	83	63	63	36307	49
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33	87	19	35401	97	41	79
39	99	39	07	99	43	81
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34123	13	63	37	33	83	93
27	19	81	47	51	89	36809
29	37	35023	49	63	36433	21
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47	49	51	91	77	57	47
57	83	53	35507	83	67	57
59	89	59	09	93	69	71
71	91	69	21	99	73	77
83	34603	81	27	36007	79	87
34211	07	83	31	11	93	99

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43	23	71	33	33	41	33
47	41	79	39	39	51	49
73	47	89	71	51	53	61
79	63	97	77	61	39301	69
97	83	37507	93	67	13	79
37003	89	51	38431	73	17	91
13	93	57	47	91	23	99
19	37501	63	49	38903	41	39821
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49	17	91	61	23	67	39
57	29	93	38501	33	71	41
61	37	97	43	53	73	47
87	47	38011	57	59	83	57
97	49	39	61	71	97	63
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23	67	53	69	93	19	79
39	71	69	93	39019	39	83
59	73	83	38603	23	43	87
71	79	38113	09	41	51	39901
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89	91	49	29	47	59	37
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37201	19	67	51	89	09	71
17	33	77	53	97	11	79
23	43	83	69	39103	21	83
43	49	89	71	07	41	89
53	57	97	77	13	51	40009
73	63	38201	93	19	63	13
77	91	19	99	33	69	31
37307	93	31	38707	39	81	37
09	99	37	11	57	39607	39
13	37717	39	13	61	19	63
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37	81	73	29	81	31	93
39	83	81	37	91	59	99
57	99	87	47	99	67	40111

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40123	40609	41081	41521	41953	42373	42767
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51	39	31	49	69	97	93
53	93	41	79	81	42403	97
63	97	43	93	83	07	42821
69	99	49	97	99	09	29
77	40709	61	41603	42013	33	39
89	39	77	09	17	37	41
93	51	79	11	19	43	53
40213	59	83	17	23	51	59
31	63	89	21	43	57	63
37	71	41201	27	61	61	99
41	87	03	41	71	63	42901
53	40801	13	47	73	67	23
77	13	21	51	83	73	29
83	19	27	59	89	87	37
89	23	31	69	42101	91	43
40343	29	33	81	31	99	53
51	41	43	87	39	42509	61
57	47	57	41719	57	33	67
61	49	63	29	69	57	79
87	53	69	37	79	69	89
40413	67	81	59	81	71	43003
27	79	99	61	87	77	13
29	83	41333	71	93	89	19
33	97	41	77	97	42611	37
59	40903	51	41801	42209	41	49
71	27	57	09	21	43	51
83	33	81	13	23	49	63
87	39	87	43	27	67	67
93	49	89	49	39	77	93
99	61	99	51	57	83	43103
40507	73	41411	63	81	89	17
19	93	13	79	83	97	33
29	41011	43	87	93	42701	51
31	17	53	93	99	03	59
43	23	67	97	42307	09	77
59	39	79	41503	23	19	89
77	47	91	11	31	27	43201
83	51	41507	27	37	37	07
91	57	13	41	49	43	23
97	77	19	47	59	51	37

4326I	43777	44203	44683	45139	45641	46141
7I	8I	07	87	6I	59	47
83	83	2I	99	79	67	53
9I	87	49	4470I	8I	73	7I
433I3	89	57	II	9I	77	8I
19	93	63	29	97	9I	83
2I	4380I	67	4I	45233	97	87
3I	53	69	53	47	45707	99
9I	67	73	7I	59	37	462I9
97	89	79	73	63	5I	29
99	9I	8I	77	8I	57	37
43403	439I3	93	89	89	63	6I
II	33	4435I	97	93	67	7I
27	43	57	44809	45307	79	73
4I	5I	7I	19	17	458I7	79
5I	6I	8I	39	19	2I	4630I
57	63	83	43	29	23	07
8I	69	89	5I	37	27	09
87	73	444I7	67	4I	33	27
99	87	49	79	43	4I	37
435I7	9I	53	87	6I	53	49
4I	97	83	93	77	63	5I
43	440I7	9I	44909	89	69	8I
73	2I	97	17	45403	87	99
77	27	4450I	27	13	93	464II
79	29	07	39	27	45943	39
9I	4I	19	53	33	49	4I
97	53	3I	59	39	53	47
43607	59	33	63	8I	59	5I
09	7I	37	7I	9I	7I	57
13	87	43	83	97	79	7I
27	89	49	87	45503	89	77
33	44I0I	63	45007	23	4602I	89
49	II	79	13	33	27	99
5I	19	87	53	4I	49	46507
6I	23	445I7	6I	53	5I	II
69	29	2I	77	57	6I	23
9I	3I	23	83	69	73	49
437II	59	33	45II9	87	9I	59
17	7I	4I	2I	89	93	67
2I	79	47	27	99	99	73
53	89	5I	3I	456I3	46I03	89
59	4420I	57	37	3I	33	9I

46601	47111	47543	47977	48487	48947	49391
19	19	63	81	91	53	93
33	23	69	48017	97	73	49409
39	29	81	23	48523	89	11
43	37	91	29	27	91	17
49	43	99	49	33	49003	29
63	47	47609	73	39	09	33
79	49	23	79	41	19	51
81	61	29	91	63	31	59
87	89	39	48109	71	33	63
91	47207	53	19	89	37	77
46703	21	57	21	93	43	81
23	37	59	31	48611	57	99
27	51	81	57	19	69	49523
47	69	99	63	23	81	29
51	79	47701	79	47	49103	31
57	87	11	87	49	09	37
69	93	13	93	61	17	47
71	97	17	97	73	21	49
46807	47303	37	48221	77	23	59
11	09	41	39	79	39	97
17	17	43	47	48731	57	49603
19	39	77	59	33	69	13
29	51	79	71	51	71	27
31	53	91	81	57	77	33
53	63	97	99	61	93	39
61	81	47807	48311	67	99	63
67	87	09	13	79	49201	67
77	89	19	37	81	07	69
89	47407	37	41	87	11	81
46901	17	43	53	99	23	97
19	19	57	71	48809	53	49711
33	31	69	83	17	61	27
57	41	81	97	21	77	39
93	59	47903	48407	23	79	41
97	91	11	09	47	97	47
47017	97	17	13	57	49307	57
41	47501	33	37	59	31	83
51	07	39	49	69	33	87
57	13	47	63	71	39	89
59	21	51	73	83	63	49801
87	27	63	79	89	67	07
93	33	69	81	48907	69	11

49823	50273	50777	51263	51679	52153	52639
31	87	89	83	83	63	67
43	91	50821	87	91	77	73
53	50311	33	51307	51713	81	91
71	21	39	29	19	83	97
77	29	49	41	21	89	52709
91	33	57	43	49	52201	11
49919	41	67	47	67	23	21
21	59	73	49	69	37	27
27	63	91	61	87	49	33
37	77	93	83	97	53	47
39	83	50909	51407	51803	59	57
43	87	23	13	17	67	69
57	50411	29	19	27	89	83
91	17	51	21	29	91	52807
93	23	57	27	39	52301	13
99	41	69	31	53	13	17
50021	59	71	37	59	21	37
23	61	89	39	69	61	59
33	97	93	49	71	63	61
47	50503	51001	61	93	69	79
51	13	31	73	99	79	83
53	27	43	79	51907	87	89
69	39	47	81	13	91	52901
77	43	59	87	29	52433	03
87	49	61	51503	41	53	19
93	51	71	11	49	57	37
50101	81	51109	17	71	89	51
11	87	31	21	73	52501	57
19	91	33	39	77	11	63
23	93	37	51	91	17	67
29	99	51	63	52009	29	73
31	50627	57	77	21	41	81
47	47	69	81	27	43	99
53	51	93	93	51	53	53003
59	71	97	99	57	61	17
77	83	99	51607	67	67	47
50207	50707	51203	13	69	71	51
21	23	17	31	81	79	69
27	41	29	37	52103	83	77
31	53	39	47	21	52609	87
61	67	41	59	27	27	89
63	73	57	73	47	31	93

P R I M I.

53101	53597	54037	54517	54983	55501	55921
13	53609	49	21	55001	11	27
17	11	59	39	09	29	31
29	17	83	41	21	41	33
47	23	91	47	49	47	49
49	29	54101	59	51	79	67
61	33	21	63	57	89	87
71	39	33	77	61	55603	97
73	53	39	81	73	09	56003
89	57	51	83	79	19	09
97	81	63	54601	55103	21	39
53201	93	67	17	09	31	41
31	99	81	23	17	33	53
33	53717	93	29	27	39	81
39	19	54217	31	47	61	87
67	31	51	47	63	63	93
69	59	69	67	71	67	99
79	73	77	73	55201	73	56101
81	77	87	79	07	81	13
99	83	93	54709	13	91	23
53309	91	54311	13	17	97	31
23	53813	19	21	19	55711	49
27	19	23	27	29	17	67
53	31	31	51	43	21	71
59	49	47	67	49	33	79
77	57	61	73	59	63	97
81	61	67	79	91	87	56207
53401	81	71	87	55313	93	09
07	87	77	99	31	99	37
11	91	54401	54829	33	55807	39
19	97	03	33	37	13	49
37	99	09	51	39	17	63
41	53917	13	69	43	19	67
53	23	19	77	51	23	69
79	27	21	81	73	29	99
53503	39	37	54907	81	37	56311
07	51	43	17	99	43	33
27	59	49	19	55411	49	59
49	87	69	41	39	71	69
51	93	93	49	41	89	77
69	54001	97	59	57	97	83
91	11	99	73	69	55501	93
93	13	54503	79	87	03	56401

56417	56821	57241	57727	58171	58657	59113
31	27	51	31	89	61	19
37	43	59	37	93	79	23
43	57	69	51	99	87	41
53	73	71	73	58207	93	49
67	91	83	81	11	99	59
73	93	87	87	17	58711	67
77	97	57501	91	29	27	83
79	56909	29	93	31	33	97
89	11	31	57803	37	41	59207
56501	21	47	09	43	57	09
03	23	49	29	71	63	19
09	29	67	39	58309	71	21
19	41	73	47	13	87	33
27	51	83	53	21	89	39
31	57	89	59	37	58831	43
33	63	97	81	63	89	63
43	83	57413	99	67	97	73
69	89	27	57901	69	58901	81
91	93	57	17	79	07	59333
97	99	67	23	91	09	41
99	57037	87	43	93	13	51
56611	41	93	47	58403	21	57
29	47	57503	73	11	37	59
33	59	27	77	17	43	69
59	73	29	91	27	63	77
63	77	57	58013	39	67	87
71	89	59	27	41	79	93
81	97	71	31	51	91	99
87	57107	87	43	53	97	59407
56701	19	93	49	77	59009	17
11	31	57601	57	81	11	19
13	39	37	61	58511	21	41
31	43	41	67	37	23	43
37	49	49	73	43	29	47
47	63	53	99	49	51	53
67	73	67	58109	67	53	67
73	79	79	11	73	63	71
79	91	89	29	79	69	73
83	93	97	47	58601	77	97
56807	57203	57709	51	03	83	59509
09	21	13	53	13	93	13
13	23	19	69	31	59107	39

TAB. VI. NUMERI PRIMI.

59557	60077	60601	61031	61553	62017	62533
61	83	07	43	59	39	39
67	89	11	51	61	47	49
81	91	17	57	83	53	63
59611	60101	23	91	61603	57	81
17	03	31	99	09	71	91
21	07	37	61121	13	81	97
27	27	47	29	27	99	62603
29	33	49	41	31	62119	17
51	39	59	51	37	29	27
59	49	61	53	43	31	33
63	61	79	69	51	37	39
69	67	89	61211	57	41	53
71	69	60703	23	67	43	59
93	60209	19	31	73	71	83
99	17	27	53	81	89	87
59707	23	33	61	87	91	62701
23	51	37	83	61703	62201	23
29	57	57	91	17	07	31
43	59	61	97	23	13	43
47	71	63	61331	29	19	53
53	89	73	33	51	33	61
71	93	79	39	57	73	73
79	60317	93	43	81	97	91
91	31	60811	57	61813	99	62801
97	37	21	63	19	62303	19
59809	43	59	79	37	11	27
33	53	69	81	43	23	51
63	73	87	61403	61	27	61
79	83	89	09	71	47	69
87	97	99	17	79	51	73
59921	60413	60901	41	61909	83	97
29	27	13	63	27	62401	62903
51	43	17	69	33	17	21
57	49	19	71	49	23	27
71	57	23	83	61	59	29
81	93	37	87	67	67	39
99	97	43	93	79	73	69
60013	60509	53	61507	81	77	71
17	21	61	11	87	83	81
29	27	61001	19	91	97	83
37	39	07	43	62003	62501	87
41	89	27	47	11	07	89

63029	63493	63901	64453	64997	65437	65851
31	99	07	83	65003	47	67
59	63521	13	89	11	49	81
67	27	29	99	27	79	99
73	33	49	64513	29	97	65921
79	41	77	53	33	65519	27
97	59	97	67	53	21	29
63103	77	64007	77	63	37	51
13	87	13	79	71	39	57
27	89	19	91	89	43	63
31	99	33	64601	99	51	81
49	63601	37	09	65101	57	83
79	07	63	13	11	63	93
97	11	67	21	19	79	66029
99	17	81	27	23	81	37
63211	29	91	33	29	87	41
41	47	64109	61	41	99	47
47	49	23	63	47	65609	67
77	59	51	67	67	17	71
81	67	53	79	71	29	83
99	71	57	93	73	33	89
63311	89	71	64709	79	47	66103
13	91	87	17	83	51	07
17	97	89	47	65203	57	09
31	63703	64217	63	13	77	37
37	09	23	81	39	87	61
47	19	31	83	57	99	69
53	27	37	93	67	65701	73
61	37	71	64811	69	07	79
67	43	79	17	87	13	91
77	61	83	49	93	17	66221
89	73	64301	53	65309	19	39
91	81	03	71	23	29	71
97	93	19	77	27	31	93
63409	99	27	79	53	61	66301
19	63803	33	91	57	77	37
21	09	73	64901	71	89	43
39	23	81	19	81	65809	47
43	39	99	21	93	27	59
63	41	64403	27	65407	31	61
67	53	33	37	13	37	73
73	57	39	51	19	39	77
87	63	51	69	23	43	83

66403	66883	67343	67777	68261	68777	69263
13	89	49	83	79	91	69313
31	66919	69	89	81	68813	17
49	23	91	67801	68311	19	37
57	31	99	07	29	21	41
63	43	97409	19	51	63	71
67	47	11	29	71	79	79
91	49	21	43	89	81	83
99	59	27	53	99	91	89
66509	73	29	67	68437	97	69401
23	77	33	83	43	99	03
29	67003	47	91	47	68503	27
33	21	53	67901	49	09	31
41	33	77	27	73	17	39
53	43	81	31	77	27	57
69	49	89	33	83	47	63
71	57	93	39	89	63	67
87	61	99	43	91	93	73
93	73	67511	57	68501	69001	81
66601	79	23	61	07	11	91
17	67103	31	67	21	19	93
29	21	37	79	31	29	97
43	29	47	87	39	31	99
53	39	59	93	43	61	69539
83	41	67	68023	67	67	57
97	53	77	41	81	73	93
66701	57	79	53	97	69109	69623
13	69	89	59	68611	19	53
21	81	67601	71	33	27	61
33	87	07	87	39	43	77
39	89	19	99	59	49	91
49	67211	31	68111	69	51	97
51	13	51	13	83	63	69709
63	17	79	41	87	91	37
91	19	99	47	99	93	39
97	31	67709	61	68711	97	61
66809	47	23	71	13	69203	63
21	61	33	68207	29	21	67
41	71	41	09	37	33	79
51	73	51	13	43	39	69809
53	89	57	19	49	47	21
63	67307	59	27	67	57	27
77	39	63	39	71	59	29

36901	37361	37811	38299	38749	39209	39671
13	63	13	38303	67	17	79
19	69	31	17	83	27	39703
23	79	47	21	91	29	09
29	97	53	27	38803	33	19
31	37409	61	29	21	39	27
43	23	71	33	33	41	33
47	41	79	51	39	51	49
73	47	89	71	51	93	61
79	63	97	77	61	39301	69
97	83	37907	93	67	13	79
37003	89	51	38431	73	17	91
13	93	57	47	91	23	99
19	37501	63	49	38903	41	39821
21	07	67	53	17	43	27
39	11	87	59	21	59	29
49	17	91	61	23	67	39
57	29	93	38501	33	71	41
61	37	97	43	53	73	47
87	47	38011	57	59	83	57
97	49	39	61	71	97	63
37117	61	47	67	77	39409	69
23	67	53	69	93	19	77
39	71	69	93	39019	39	83
59	73	83	38603	23	43	87
71	79	38113	09	41	51	39901
81	89	19	11	43	61	29
89	91	49	29	47	99	37
99	37607	53	39	79	39503	53
37201	19	67	51	89	09	71
17	33	77	53	97	11	79
23	43	83	69	39103	21	83
43	49	89	71	07	41	89
53	57	97	77	13	51	40009
73	63	38201	93	19	63	13
77	91	19	99	33	69	31
37307	93	31	38707	39	81	37
09	99	37	11	57	39607	39
13	37717	39	13	61	19	63
21	47	61	23	63	23	87
37	81	73	29	81	31	93
39	83	81	37	91	59	99
57	99	87	47	99	67	40111

P R I M I.

40123	40609	41081	41521	41953	42373	42767
27	27	41113	39	57	79	73
29	37	17	43	59	91	87
51	39	31	49	69	97	93
53	93	41	79	81	42403	97
63	97	43	93	83	07	42821
69	99	49	97	99	09	29
77	40709	61	41603	42013	33	39
89	39	77	09	17	37	41
93	51	79	11	19	43	53
40213	59	83	17	23	51	59
31	63	89	21	43	57	63
37	71	41201	27	61	61	99
41	87	03	41	71	63	42901
53	40801	13	47	73	67	23
77	13	21	51	83	73	29
83	19	27	59	89	87	37
89	23	31	69	42101	91	43
40343	29	33	81	31	99	53
51	41	43	87	39	42509	61
57	47	57	41719	57	33	67
61	49	63	29	69	57	79
87	53	69	37	79	69	89
40423	67	81	59	81	71	43003
27	79	99	61	87	77	13
29	83	41333	71	93	89	19
33	97	41	77	97	42611	37
59	40903	51	41801	42209	41	49
71	27	57	09	21	43	51
83	33	81	13	23	49	63
87	39	87	43	27	67	67
93	49	89	49	39	77	93
99	61	99	51	57	83	43103
40507	73	41411	63	81	89	17
19	93	13	79	83	97	33
29	41011	43	87	93	42701	51
31	17	53	93	99	03	59
43	23	67	97	42307	09	77
59	39	79	41903	23	19	89
77	47	91	11	31	27	43201
83	51	41507	27	37	37	07
91	57	13	41	49	43	23
97	77	19	47	59	51	37

43261	43777	44203	44683	45139	45641	46141
71	81	07	87	61	59	47
83	83	21	99	79	67	53
91	87	49	44701	81	73	71
43313	89	57	11	91	77	81
19	93	63	29	97	91	83
21	43801	67	41	45233	97	87
31	53	69	53	47	45707	99
91	67	73	71	59	37	46219
97	89	79	73	63	51	29
99	91	81	77	81	57	37
43403	43913	93	89	89	63	61
11	33	44351	97	93	67	71
27	43	57	44809	45307.	79	73
41	51	71	19	17	45817	79
51	61	81	39	19	21	46301
57	63	83	43	29	23	07
81	69	89	51	37	27	09
87	73	44417	67	41	33	27
99	87	49	79	43	41	37
43517	91	53	87	61	53	49
41	97	83	93	77	63	51
43	44017	91	44909	89	69	81
73	21	97	17	45403	87	99
77	27	44501	27	13	93	46411
79	29	07	39	27	45943	39
91	41	19	53	33	49	41
97	53	31	59	39	53	47
43607	59	33	63	81	59	51
09	71	37	71	91	71	57
13	87	43	83	97	79	71
27	89	49	87	45503	89	77
33	44101	63	45007	23	46021	89
49	11	79	13	33	27	99
51	19	87	53	41	49	46507
61	23	44617	61	53	51	11
69	29	21	77	57	61	23
91	31	23	83	69	73	49
43711	59	33	45119	87	91	59
17	71	41	21	89	93	67
21	79	47	27	99	99	73
53	89	51	31	45613	46103	89
59	44201	57	37	31	33	91

46601	47111	47543	47977	48487	48947	49391
19	19	63	81	91	53	93
33	23	69	48017	97	73	49409
39	29	81	23	48523	89	11
43	37	91	29	27	91	17
49	43	99	49	33	49003	29
63	47	47609	73	39	09	33
79	49	23	79	41	19	51
81	61	29	91	63	31	59
87	89	39	48109	71	33	63
91	47207	53	19	89	37	77
46703	21	57	21	93	43	81
23	37	59	31	48611	57	99
27	51	81	57	19	69	49523
47	69	99	63	23	81	29
51	79	47701	79	47	49103	31
57	87	11	87	49	09	37
69	93	13	93	61	17	47
71	97	17	97	73	21	49
46807	47303	37	48221	77	23	59
11	09	41	39	79	39	97
17	17	43	47	48731	57	49603
19	39	77	59	33	69	13
29	51	79	71	51	71	27
31	53	91	81	57	77	33
53	63	97	99	61	93	39
61	81	47807	48311	67	99	63
67	87	09	13	79	49201	67
77	89	19	37	81	07	69
89	47407	37	41	87	11	81
46901	17	43	53	99	23	97
19	19	57	71	48809	53	49711
33	31	69	83	17	61	27
57	41	81	97	21	77	39
93	59	47903	48407	23	79	41
97	91	11	09	47	97	47
47017	97	17	13	57	49307	57
41	47501	33	37	59	31	83
51	07	39	49	69	33	87
57	13	47	63	71	39	89
59	21	51	73	83	63	49801
87	27	63	79	89	67	07
93	33	69	81	48907	69	11

49823	50273	50777	51263	51679	52153	52639
31	87	89	83	83	63	67
43	91	50821	87	91	77	73
53	50311	33	51307	51713	81	91
71	21	39	29	19	83	97
77	29	49	41	21	89	52709
91	33	57	43	49	52201	11
49919	41	67	47	67	23	21
21	59	73	49	69	37	27
27	63	91	61	87	49	33
37	77	93	83	97	53	47
39	83	50909	51407	51803	59	57
43	87	23	13	17	67	69
57	50411	29	19	27	89	83
91	17	51	21	29	91	52807
93	23	57	27	39	52301	13
99	41	69	31	53	13	17
50021	59	71	37	59	21	37
23	61	89	39	69	61	59
33	97	93	49	71	63	61
47	50503	51001	61	93	69	79
51	13	31	73	99	79	83
53	27	43	79	51907	87	89
69	39	47	81	13	91	52901
77	43	59	87	29	52433	03
87	49	61	51503	41	53	19
93	51	71	11	49	57	37
50101	81	51109	17	71	89	51
11	87	31	21	73	52501	57
19	91	33	39	77	11	63
23	93	37	51	91	17	67
29	99	51	63	52009	29	73
31	50627	57	77	21	41	81
47	47	69	81	27	43	99
53	51	93	93	51	53	53003
59	71	97	99	57	61	17
77	83	99	51607	67	67	47
50207	50707	51203	13	69	71	51
21	23	17	31	81	79	69
27	41	29	37	52103	83	77
31	53	39	47	21	52609	87
61	67	41	59	27	27	89
63	73	57	73	47	31	93

P R I M I.

53101	53597	54037	54517	54983	55501	55921
13	53609	49	21	55001	11	27
17	11	59	39	09	29	31
29	17	83	41	21	41	33
47	23	91	47	49	47	49
49	29	54101	59	51	79	67
61	33	21	63	57	89	87
71	39	33	77	61	55603	97
73	53	39	81	73	09	56003
89	57	51	83	79	19	09
97	81	63	54601	55103	21	39
53201	93	67	17	09	31	41
31	99	81	23	17	33	53
33	53717	93	29	27	39	81
39	19	54217	31	47	61	87
67	31	51	47	63	63	93
69	59	69	67	71	67	99
79	73	77	73	55201	73	56101
81	77	87	79	07	81	13
99	83	93	54709	13	91	23
53309	91	54311	13	17	97	31
23	53813	19	21	19	55711	49
27	19	23	27	29	17	67
53	31	31	51	43	21	71
59	49	47	67	49	33	79
77	57	61	73	59	63	97
81	61	67	79	91	87	56207
53401	81	71	87	55313	93	09
07	87	77	99	31	99	37
11	91	54401	54829	33	55807	39
19	97	03	33	37	13	49
37	99	09	51	39	17	63
41	53917	13	69	43	19	67
53	23	19	77	51	23	69
79	27	21	81	73	29	99
53503	39	37	54907	81	37	56311
07	51	43	17	99	43	33
27	59	49	19	55411	49	59
49	87	69	41	39	71	69
51	93	93	49	41	89	77
69	54001	97	59	57	97	83
91	11	99	73	69	55501	93
93	13	54503	79	87	03	56401

56417	56821	57241	57727	58171	58657	59113
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37	43	59	37	93	79	23
43	57	69	51	99	87	41
53	73	71	73	58207	93	49
67	91	83	81	11	99	59
73	93	87	87	17	58711	67
77	97	57501	91	29	27	83
79	56909	29	93	31	33	97
89	11	31	57803	37	41	59207
56501	21	47	09	43	57	09
03	23	49	29	71	63	19
09	29	67	39	58309	71	21
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27	51	83	53	21	89	39
31	57	89	59	37	58831	43
33	63	97	81	63	89	63
43	83	57413	99	67	97	73
69	89	27	57901	69	58901	81
91	93	57	17	79	07	59333
97	99	67	23	91	09	41
99	57037	87	43	93	13	51
56611	41	93	47	58403	21	57
29	47	57503	73	11	37	59
33	59	27	77	17	43	69
59	73	29	91	27	63	77
63	77	57	58013	39	67	87
71	89	59	27	41	79	93
81	97	71	31	51	91	99
87	57107	87	43	53	97	59407
56701	19	93	49	77	59009	17
11	31	57601	57	81	11	19
13	39	37	61	58511	21	41
31	43	41	67	37	23	43
37	49	49	73	43	29	47
47	63	53	99	49	51	53
67	73	67	58109	67	53	67
73	79	79	11	73	63	71
79	91	89	29	79	69	73
83	93	97	47	58601	77	97
56807	57203	57709	51	03	83	59509
09	21	13	53	13	93	13
13	23	19	69	31	59107	39

TAB. VI. NUMERI PRIMI.

59557	60077	60601	61031	61553	62017	62533
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81	91	17	57	83	53	63
59611	60101	23	91	61603	57	81
17	03	31	99	09	71	91
21	07	37	61121	13	81	97
27	27	47	29	27	99	62603
29	33	49	41	31	62119	17
51	39	59	51	37	29	27
59	49	61	53	43	31	33
63	61	79	69	51	37	39
69	67	89	61211	57	41	53
71	69	60703	23	67	43	59
93	60209	19	31	73	71	83
99	17	27	53	81	89	87
59707	23	33	61	87	91	62701
23	51	37	83	61703	62201	23
29	57	57	91	17	07	31
43	59	61	97	23	13	43
47	71	63	61331	29	19	53
53	89	73	33	51	33	61
71	93	79	39	57	73	73
79	60317	93	43	81	97	91
91	31	60811	57	61813	99	62801
97	37	21	63	19	62303	19
59809	43	59	79	37	11	27
33	53	69	81	43	23	51
63	73	87	61403	61	27	61
79	83	89	09	71	47	69
87	97	99	17	79	51	73
59921	60413	60901	41	61909	83	97
29	27	13	63	27	62401	62903
51	43	17	69	33	17	21
57	49	19	71	49	23	27
71	57	23	83	61	59	29
81	93	37	87	67	67	39
99	97	43	93	79	73	69
60013	60509	53	61507	81	77	71
17	21	61	11	87	83	81
29	27	61001	19	91	97	83
37	39	07	43	62003	62501	87
41	89	27	47	11	07	89

63029	63493	63901	64453	64997	65437	65851
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59	63521	13	89	11	49	81
67	27	29	99	27	79	99
73	33	49	64513	29	97	65921
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97	59	97	67	53	21	29
63103	77	64007	77	63	37	51
13	87	13	79	71	39	57
27	89	19	91	89	43	63
31	99	33	64601	99	51	81
49	63601	37	09	65101	57	83
79	07	63	13	11	63	93
97	11	67	21	19	79	66029
99	17	81	27	23	81	37
63211	29	91	33	29	87	41
41	47	64109	61	41	99	47
47	49	23	63	47	65609	67
77	59	51	67	67	17	71
81	67	53	79	71	29	83
99	71	57	93	73	33	89
63311	89	71	64709	79	47	66103
13	91	87	17	83	51	07
17	97	89	47	65203	57	09
31	63703	64217	63	13	77	37
37	09	23	81	39	87	61
47	19	31	83	57	99	69
53	27	37	93	67	65701	73
61	37	71	64811	69	07	79
67	43	79	17	87	13	91
77	61	83	49	93	17	66221
89	73	64301	53	65309	19	39
91	81	03	71	23	29	71
97	93	19	77	27	31	93
63409	99	27	79	53	61	66301
19	63803	33	91	57	77	37
21	09	73	64901	71	89	43
39	23	81	19	81	65809	47
43	39	99	21	93	27	59
63	41	64403	27	65407	31	61
67	53	33	37	13	37	73
73	57	39	51	19	39	77
87	63	51	69	23	43	83

66403	66883	67343	67777	68261	68777	69263
13	89	49	83	79	91	69313
31	66919	69	89	81	68813	17
49	23	91	67801	68311	19	37
57	31	99	07	29	21	41
63	43	97409	19	51	63	71
67	47	11	29	71	79	79
91	49	21	43	89	81	83
99	59	27	53	99	91	89
66509	73	29	67	68437	97	69401
23	77	33	83	43	99	03
29	67003	47	91	47	68503	27
33	21	53	67901	49	09	31
41	33	77	27	73	17	39
53	43	81	31	77	27	57
69	49	89	33	83	47	63
71	57	93	39	89	63	67
87	61	99	43	91	93	73
93	73	67511	57	68501	69001	81
66601	79	23	61	07	11	91
17	67103	31	67	21	19	93
29	21	37	79	31	29	97
43	29	47	87	39	31	99
53	39	59	93	43	61	69539
83	41	67	68023	67	67	57
97	53	77	41	81	73	93
66701	57	79	53	97	69109	69623
13	69	89	59	68611	19	53
21	81	67601	71	33	27	61
33	87	07	87	39	43	77
39	89	19	99	59	49	91
49	67211	31	68111	69	51	97
51	13	51	13	83	63	69709
63	17	79	41	87	91	37
91	19	99	47	99	93	39
97	31	67709	61	68711	97	61
66809	47	23	71	13	69203	63
21	61	33	68207	29	21	67
41	71	41	09	37	33	79
51	73	51	13	43	39	69809
53	89	57	19	49	47	21
63	67307	59	27	67	57	27
77	39	63	39	71	59	29

69833	70289	70783	71237	71671	72101	72623
47	97	93	49	93	03	43
57	70309	70823	57	99	09	47
59	13	41	61	71707	39	49
77	21	43	63	11	61	61
99	27	49	87	13	67	71
69911	51	53	93	19	69	73
29	73	67	71317	41	73	79
31	79	77	27	61	72211	89
41	81	79	29	77	21	72701
59	93	91	33	89	23	07
91	70423	70901	39	71807	27	19
97	29	13	41	09	29	27
70001	39	19	47	21	51	33
03	51	21	53	37	53	39
09	57	37	59	43	69	63
19	59	49	63	49	71	67
39	81	51	87	61	77	97
51	87	57	89	67	87	72817
61	89	69	99	79	72307	23
67	70501	79	71411	81	13	59
79	07	81	13	87	37	69
99	29	91	19	99	41	71
70111	37	97	29	71909	53	83
17	49	99	37	17	67	89
21	71	71011	43	33	79	93
23	73	23	53	41	83	72901
39	83	39	71	47	72421	07
41	89	59	73	63	31	11
57	70607	69	79	71	61	23
63	19	81	83	83	67	31
77	21	89	71503	87	69	37
81	27	71119	27	93	81	49
83	39	29	37	99	93	53
99	57	43	49	72019	97	59
70201	63	47	51	31	72503	73
07	67	53	63	43	33	77
23	87	61	69	47	47	97
29	70709	67	93	53	51	73009
37	17	71	97	73	59	13
41	29	91	71633	77	77	19
49	53	71209	47	89	72613	37
71	69	33	63	91	17	39

PRIMI.

73043	73597	74099	74551	75017	75527	735989
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91	37	49	87	79	53	03
73121	43	59	97	83	57	31
27	51	61	74609	75109	71	39
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41	79	77	23	49	83	81
81	81	89	53	61	75611	91
89	93	97	87	67	17	99
73237	99	74201	99	69	19	76103
43	73709	03	74707	81	29	23
59	21	09	13	93	41	29
77	27	19	17	75209	53	47
91	51	31	19	11	59	57
73303	57	57	29	17	79	59
09	71	79	31	23	83	63
27	83	87	47	27	89	76207
31	73819	93	59	39	75703	13
51	23	97	61	53	07	31
61	47	74311	71	69	09	43
63	49	17	79	77	21	49
69	59	23	97	89	31	53
79	67	53	74821	75307	43	59
87	77	57	27	23	67	61
73417	83	63	31	29	73	83
21	97	77	43	37	81	89
33	73907	81	57	47	87	76303
53	39	83	61	53	93	33
59	43	74411	69	67	97	43
71	51	13	73	77	75821	67
77	61	19	87	89	33	69
83	73	41	91	91	53	79
73517	99	49	97	75401	69	87
23	74017	53	74903	03	83	76403
29	21	71	23	07	75913	21
47	27	89	29	31	31	23
53	47	74507	33	37	37	41
61	51	09	41	79	41	63
71	71	21	59	75503	67	71
83	77	27	75011	11	79	81
89	93	31	13	21	83	87

76423	77003	77479	77893	78437	78901	79411
76507	17	89	99	39	19	23
11	23	91	77929	67	29	27
19	29	77509	33	79	41	33
37	41	13	51	87	77	51
41	47	21	69	97	79	81
43	69	27	77	78509	89	93
61	81	43	83	11	79031	79531
79	93	49	99	17	39	37
97	77101	51	78007	39	43	49
76603	37	57	17	41	63	59
07	41	63	31	53	87	61
31	53	69	41	69	79103	79
49	67	73	49	79	11	89
51	71	87	59	77	33	79601
67	91	91	79	83	39	09
73	77201	77611	78101	93	47	13
79	13	17	21	78607	51	21
97	37	21	37	23	53	27
76717	39	41	39	43	59	31
33	43	47	57	49	81	33
53	49	59	63	53	87	57
57	61	81	67	91	93	69
71	63	87	73	97	79201	87
77	67	89	79	78707	29	91
81	69	99	91	13	31	93
76801	79	77711	93	21	41	97
19	91	13	78203	37	59	99
29	77317	19	29	79	73	79757
31	23	23	33	81	79	69
37	39	31	41	87	83	77
47	47	43	59	91	79301	79801
71	51	47	77	97	09	11
73	59	61	83	78803	19	13
83	69	73	78301	09	33	17
76907	77	83	07	23	37	23
13	83	97	11	39	49	29
19	77417	77801	17	53	57	41
43	19	13	41	57	67	43
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61	47	49	67	87	93	61
63	71	63	78401	89	97	67
91	77	67	27	93	99	73

P R I M I.

99

79889	80347	80819	81283	81761	82219	82721
79901	63	31	93	69	23	23
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07	87	49	81307	99	37	29
39	80407	63	31	81817	41	57
43	29	57	43	39	61	59
67	47	80909	49	47	67	63
73	49	11	53	53	79	81
79	71	17	59	69	82301	87
87	73	23	71	83	07	93
97	89	29	73	99	39	99
99	91	33	81401	81901	49	82811
80021	80513	53	09	19	51	13
39	27	63	21	29	61	37
51	37	89	39	31	73	47
71	57	81001	57	37	87	83
77	67	13	63	43	93	89
80107	99	17	81509	53	82421	91
11	80603	19	17	67	57	82903
41	11	23	27	71	63	13
47	21	31	33	73	69	39
49	27	41	47	82003	71	63
53	29	43	51	07	83	81
67	51	47	53	09	87	97
73	57	49	59	13	93	83003
77	69	71	63	21	99	09
91	71	77	69	31	82507	23
80207	77	83	81611	37	29	47
07	81	97	19	39	31	59
09	83	81101	29	51	49	63
21	87	19	37	67	59	71
31	80701	31	47	73	61	77
33	13	57	49	82129	67	89
39	37	63	67	39	71	93
51	47	73	71	41	91	83101
63	49	81	77	53	82601	17
73	61	97	89	63	09	37
79	77	99	81701	71	13	77
87	79	81203	03	83	19	83203
80309	83	23	07	89	33	07
17	89	33	27	93	51	19
29	80803	39	37	82207	57	21
41	09	81	49	17	99	27

83231	83717	84229	84713	85223	85703	86243
33	19	39	19	29	11	49
43	37	47	31	37	17	57
57	61	63	37	43	33	63
67	73	99	51	47	51	69
69	77	84307	61	59	81	87
73	91	13	87	97	93	91
99	83813	17	93	85303	85817	93
83311	33	19	84809	13	19	97
39	43	47	11	31	29	86311
41	57	49	27	33	31	23
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83	73	89	59	63	43	51
89	91	91	69	69	47	53
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83401	11	07	84913	85411	89	69
07	21	21	19	27	85903	71
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23	39	37	61	39	31	89
31	69	43	67	47	33	99
37	83	49	77	51	91	86413
43	87	57	79	53	99	23
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59	17	67	85009	87	17	53
71	47	81	21	85513	27	61
77	53	99	27	17	29	67
97	59	84503	37	23	69	77
83537	61	09	49	31	77	91
57	67	21	61	49	83	86501
61	89	23	81	71	86111	09
63	84121	33	87	77	13	31
79	27	51	91	97	17	33
91	31	59	93	85601	31	39
97	37	89	85103	07	37	61
83609	43	84629	09	19	43	73
17	63	31	21	21	61	79
21	79	49	33	27	71	87
39	81	53	47	39	79	99
41	91	59	59	43	83	86627
53	99	73	93	61	97	29
63	84211	91	99	67	86201	77
89	21	97	85201	69	09	89
83701	23	84701	13	91	39	93

P R I M I.

IOI

86711	87223	87671	88211	88799	89227	89669
19	51	79	23	88801	31	71
29	53	83	37	07	37	81
43	57	91	41	11	61	89
53	77	97	59	13	69	89753
67	81	87701	61	17	73	59
71	93	19	89	19	93	67
83	99	21	88301	43	89303	79
86813	87313	39	21	53	17	85
37	17	43	27	61	29	97
43	23	51	37	67	63	89809
51	37	67	39	73	71	19
57	59	93	79	83	81	21
61	83	97	97	97	87	33
69	87403	87803	88411	88903	93	39
86923	07	11	23	19	99	49
27	21	33	27	37	89413	67
29	27	53	63	51	17	91
39	33	69	69	69	31	97
51	43	77	71	93	43	99
59	73	81	93	97	49	89909
69	81	87	99	89003	59	17
81	91	87911	88513	09	77	23
93	87509	17	23	17	91	39
87011	11	31	47	21	89501	59
13	17	43	89	41	13	63
37	23	59	91	51	19	77
41	39	61	88607	57	21	83
49	41	73	09	69	27	89
71	47	77	43	71	33	90001
83	53	91	51	83	61	07
87103	57	88001	57	87	63	11
07	59	03	61	89101	67	17
19	83	07	63	07	91	19
21	87	19	67	13	97	23
33	89	37	81	19	99	31
49	87613	69	88721	23	89603	53
51	23	79	29	37	11	59
79	29	93	41	53	27	67
81	31	88117	47	89	33	71
87	41	29	71	89203	53	73
87211	43	69	89	09	57	89
21	49	77	93	13	59	90107

90121	90619	91141	91631	92177	92623	93053
27	51	51	39	79	27	59
49	41	53	73	89	39	77
63	47	59	91	92203	41	85
73	59	65	91703	19	47	89
87	77	93	11	21	57	97
91	79	99	33	27	69	93103
97	97	91229	53	33	71	13
99	90703	37	57	37	81	31
90203	09	43	71	43	83	33
17	31	49	81	51	93	39
27	49	53	91801	69	99	51
39	87	83	07	97	92707	69
47	93	91	11	92311	17	76
63	90803	97	13	17	23	87
71	21	91303	23	33	57	99
81	23	09	37	47	53	93229
89	33	31	41	53	61	39
90313	41	67	67	57	67	41
53	47	69	73	63	79	51
59	63	73	91909	69	89	53
71	87	81	21	77	91	57
73	90901	87	39	81	92801	63
79	07	93	43	83	09	81
97	11	97	51	87	21	83
90401	17	91411	57	99	31	87
03	31	23	61	92401	49	93307
07	47	33	67	13	57	19
37	71	53	69	19	61	23
39	77	57	97	31	63	29
69	89	59	92003	59	67	37
73	97	63	09	61	93	71
81	91009	93	33	67	99	77
99	19	99	41	79	92921	83
90511	33	91513	51	89	27	93407
23	79	29	77	92503	41	19
27	81	41	83	07	51	27
29	97	71	92107	51	57	63
33	99	73	11	57	59	79
47	91121	77	19	67	87	81
83	27	83	43	69	93	87
99	29	91	53	81	93001	91
90617	39	91621	73	93	47	93

TAB. VI. NUMERI PRIMI.

103

93497	94033	94531	95009	95461	95923	96451
93503	49	41	21	67	29	57
23	57	43	27	71	47	61
29	63	47	63	79	57	69
53	79	59	71	83	59	79
57	99	61	83	95507	71	87
59	94109	73	87	27	87	93
63	11	83	89	31	89	97
81	17	97	93	39	96001	96517
93601	21	94603	95101	49	13	27
07	51	13	07	61	17	53
29	53	21	11	69	43	57
37	69	49	31	81	53	81
83	94201	51	43	97	59	87
93701	07	87	53	95603	79	89
03	19	93	77	17	97	96601
19	29	94709	89	21	96137	43
39	53	23	91	29	49	61
61	61	27	95203	33	57	67
63	73	47	13	51	67	71
87	91	71	19	95701	79	97
93809	94307	77	31	07	81	96703
11	09	81	33	13	99	31
27	21	89	39	17	96211	37
51	27	93	57	23	21	39
71	31	94811	61	31	23	49
87	43	19	67	37	33	57
89	49	23	73	47	59	63
93	51	37	79	73	63	69
93901	79	41	87	83	69	79
11	97	47	95311	89	81	87
13	99	49	17	91	89	97
23	94421	73	27	95801	93	99
37	27	89	39	03	96323	66821
41	33	94903	69	13	29	23
49	39	07	83	19	31	27
67	41	33	93	57	37	47
71	47	49	95401	69	53	51
79	63	51	13	73	77	57
83	77	61	19	81	96401	93
97	83	93	29	91	19	96907
94007	94513	99	41	95911	31	11
09	29	95003	43	17	43	31

96953	97453	97973	98507	98981	99487	99961
59	99	87	19	93	97	71
73	97501	98009	33	99	99523	89
79	11	11	43	99013	27	91
89	23	17	61	17	29	100003
97	47	41	63	23	51	19
97001	49	47	73	41	59	43
03	53	57	97	53	63	49
07	61	81	68621	79	71	57
21	71	98101	27	83	77	69
39	77	23	39	89	81	100103
73	79	29	41	99103	99607	09
81	83	43	63	09	11	29
97103	97507	79	69	19	23	51
17	09	98207	89	31	43	53
27	13	13	98711	33	61	69
51	49	21	13	37	67	83
57	51	27	17	39	79	89
59	73	51	29	49	89	93
69	87	57	31	73	99707	100207
71	97711	69	37	81	09	13
77	29	97	73	91	13	37
87	71	99	79	99223	19	67
97213	77	98317	98801	33	21	71
31	87	21	07	41	33	79
41	89	23	09	51	61	91
59	97313	27	37	57	67	97
83	29	47	49	59	87	100313
97301	41	69	67	77	93	33
03	43	77	69	89	99809	43
27	47	87	73	99317	17	57
67	49	89	87	47	23	61
69	59	98407	93	49	29	63
73	61	11	97	67	33	79
79	71	19	99	71	39	91
81	79	29	98909	77	59	95
87	83	43	11	91	71	109403
97	97919	53	27	97	77	11
97423	27	59	29	99401	81	17
29	31	67	39	09	99901	47
41	43	73	47	31	07	59
53	61	79	53	39	23	69
59	67	91	63	69	29	83

P R I M I.

105

100493	100703	100957	101161	101363	101561	101771
100501	33	81	73	77	73	89
11	41	87	83	83	81	97
17	47	99	97	99	99	101807
19	69	101009	101203	101411	101603	33
23	87	21	07	19	11	37
37	99	27	09	29	27	39
47	100801	51	21	49	41	63
49	11	63	67	67	53	69
59	23	81	73	77	63	73
91	29	89	79	83	81	79
100609	47	101107	81	89	93	91
13	53	11	87	101501	101701	101917
21	100907	13	93	03	19	21
49	13	17	101323	13	23	29
69	27	19	33	27	37	39
73	31	41	41	31	41	57
93	37	49	47	33	47	63
99	43	59	59	37	49	77

Non obruemus numeris primis indagatores divisibilium, sed acquiescentes termino Auctoris breviter inquiremus hoc spatiolo rationem inter copiam divisibilium et indivisibilium. Quippe repertum est, intra terminos 2^{dæ} millionis 71 fere respondere cuivis 1000, adeoque 14. fere partem numerorum, exclusis vero per 2, 3, 5 divisibilibus (inter 11 fere 3 occurrere primos) quartam prope partem.

Hæc ratio in sequentibus millionibus parum differt, quia intra 1409 et 3163 proxime $\sqrt{10^m}$. nonnisi 224 num. pr. occurrunt 25200 nova producta factoribus infra 1409 non affecta proferentes; inde patet, primorum multitudinem vix sensibilibiter decrescere in millionibus semper altioribus. Intra 10- et 100^m 306153 nova producta intrant, minuentes primos intra 1000 de 71 ad 68; intra 100^m et 200^m 94830 nova producta (neque ideo 1 pro 1000) intrant; adeoque ratio indivisibilium et divisibilium semper pendebit intra 1 : 14 et 1 : 15.

Juverit hic adducere conjecturam Cl. *Hindenburg* p. 15. Operis alibi citati, a me jam præmeditatam, quam indemonstratam suppressit: Inter miliones remotissimas occurrere debere epochas millionum, quarum numeri primi auctiores sint illis primarum millionum: Quod supplere visum est ita: Crescentibus semper millionibus, multiplis tamen novis insensibilibiter auctis, devenietur tandem ad combinationes factorum primorum ordinum, ubi limites antecedentes (qui concipi possunt, numeris infra 1 negative continuatis) et consequentes, quibus ab 1 ascendimus, proxime accedunt, duplicæ quodammodo inter divisibiles interstitia offerent; idque per vices infinite variantes, productis novis infinite quodammodo divergentibus.

Tantum abest, ut indivisibilium copia novorum productorum multitudine exhauriatur.

F.

T A B. VII.

DIGNITATES BINARIIL.

1	2	11	2048	21	2097152	31	2147483648
2	4	12	4096	22	4194304	32	4294967296
3	8	13	8192	23	8388608	33	8589934592
4	16	14	16384	24	16777216	34	17179869184
5	32	15	32768	25	33554432	35	34359738368
6	64	16	65536	26	67108864	36	68719476736
7	128	17	131072	27	134217728	37	137438953472
8	256	18	262144	28	268435456	38	274877906944
9	512	19	524288	29	536870912	39	549755813888
10	1024	20	1048576	30	1073741824	40	1099511627776

41	2199023255552	51	2251799813685248
42	4398046511104	52	4503599627370496
43	8796093022208	53	9007199254740992
44	17592186044416	54	18014398509481984
45	35184372088832	55	36028797018963968

46	70368744177664	56	72057594037927936
47	140737488355328	57	144115188075855872
48	281474976710656	58	288230376151711744
49	562949953421312	59	576460752303423488
50	1125899906842624	60	1152921504606846976

61	2305843009213693952
62	4611686018427387904
63	9223372036854775808
64	18446744073709551616
65	36893488147419103232

66	73786976294838206464
67	147573952589676412928
68	295147905179352825856
69	590295810358705651712
70	1180591620717411303424

TAB. VIII.
DIGNITATES TERNARI.

1	3	11	177147	21	10460353203
2	9	12	531441	22	31381059609
3	27	13	1594323	23	94143178827
4	81	14	4782969	24	282429536481
5	243	15	14348907	25	847288609443
6	729	16	43046721	26	2541865828329
7	2187	17	129140163	27	7625597484987
8	6561	18	387420489	28	22876792454961
9	19683	19	1162261467	29	68630377364883
10	59049	20	3486784401	30	205891132094649

31					617673396283947
32					1853020188851841
33					5559060566555523
34					16677181699666569
35					50031545098999707

36					150094635296999121
37					450283905890997363
38					1350851717672992089
39					4052555153018976267
40					12157665459056928801

41					36472996377170786403
42					109418989131512359209
43					328256967394537077627
44					984770902183611232881
45					2954312706550833698643

46					8862938119652501095929
47					26588814358957503287787
48					79766443076872509863361
49					239299329230617529590083
50					717897987691852588770249

TAB. IX.

DIGNITATES QUINARIJ.

1	5	11	48828125	21	476837158203125
2	25	12	244140625	22	2384185791015625
3	125	13	1220703125	23	11920928955078125
4	625	14	6103515625	24	59604644775390625
5	3125	15	30517578125	25	298023223876953125
6	15625	16	152587890625	26	1490116119384765625
7	78125	17	762939453125	27	7450580596923828125
8	390625	18	3814697265625	28	37252902984619140625
9	1953125	19	19073486328125	29	186264514923095703125
10	9765625	20	95367431640625	30	931322574615478515625

31 4656612873077392578125
 32 23283064365386962890625
 33 116415321826934814453125
 34 582076609134674072265625
 45 2910383045673370361328125

36 14551915228366851806640625
 37 72759576141834259033203125
 38 363797880709171295166015625
 39 1818989403545856475830078125
 40 9094947017729282379150390625

41 45474735088646411895751953125
 42 227373675443232059478759765625
 43 1136868377216160297393798828125
 44 5684341886080801486968994140625
 45 28421709430404007434844970703125

46 142108547152020037174224853515625
 47 710542735760100185871124267578125
 48 3552713678800500929355621337890625
 49 17763568394002504646778106689453125
 50 88817841970012523233890533447265625

T A B. X.

Log. $e = 1$.

$$e^x = 1 + x + \frac{1}{2}x^2 + \frac{1}{2 \cdot 3}x^3 + \frac{1}{2 \cdot 3 \cdot 4}x^4 + \&c.$$

$$e^x = \frac{1}{+1+1}$$

$$\quad \frac{-1:x+1}{-2+1}$$

$$\quad \quad \frac{+3:x+1}{+2+1}$$

$$\quad \quad \quad \frac{-5:x+1}{-2+1}$$

$$\quad \quad \quad \quad \frac{+7:x+\&c.}{+7:x+\&c.}$$

$$e^x = \frac{2+x}{2-x} - \frac{1}{12}x^3 - \frac{1}{12}x^4 - \&c.$$

$$e^x = \frac{12+6x+xx}{12-6x+xx} + \frac{1}{720}x^5 + \&c.$$

$$\frac{e^x + 1}{1} = \frac{1}{1-1}$$

$$\quad \frac{2:x+1}{0:x+1}$$

$$\quad \quad \frac{10:x+1}{14:x+1}$$

$$\quad \quad \quad \frac{18:x+\&c.}{18:x+\&c.}$$

T A B. XI.

x	e^{-x}	x	e^{-x}
0,1	0,9048375	1	0,3678879
0,2	0,8187308	2	0,1353353
0,3	0,7408182	3	0,0497871
0,4	0,6703201	4	0,0183156
0,5	0,6065307	5	0,0067379
0,6	0,5488116	6	0,0024788
0,7	0,4965053	7	0,0009119
0,8	0,4493290	8	0,0003355
0,9	0,4065696	9	0,0001234
0,0	0,3678879	10	0,0000454

$$\text{Log. } (1 + x) = x - \frac{1}{2}x^2 + \frac{1}{3}x^3 - \frac{1}{4}x^4 + \frac{1}{5}x^5 - \&c.$$

$$\text{Log. } (a + x) = \log a + \frac{x}{a} - \frac{x^2}{2a^2} + \frac{x^3}{3a^3} - \frac{x^4}{4a^4} + \&c.$$

$$\text{Log. } (1 + x) = \frac{1}{1:x+1} \begin{array}{l} \hline 2+1 \\ \hline 3:x+1 \\ \hline 4+1 \\ \hline 5:x+1 \\ \hline 6+1 \\ \hline 7:x+1 \\ \hline 8+1 \\ \hline 9:x+1 \\ \hline 10+1 \\ \hline \end{array}$$

$$\text{Log. } (1 + \frac{1}{x}) = \frac{1}{x+1} \begin{array}{l} \hline 2:1+1 \\ \hline 3x+1 \\ \hline 2:2+1 \\ \hline 5x+1 \\ \hline 2:3+1 \\ \hline 7x+1 \\ \hline 2:4+1 \\ \hline \end{array} \&c.$$

	I	O
x	0	1
2	1	x
3x	2	2x + 1
1	6x + 1	6x ² + 4x
5x	6x + 3	(x ² + 6x + 1
2:3	30x ² + 21x + 1	30x ³ + 36x ² + 9x
7x	20x ² + 20x + 1	20x ³ + 30x ² + 12x + 1
etc.	140x ³ + 170x ² + 140x + 1	140x ⁴ + 240x ³ + 120x ² + 16x
	&c.	&c.

$$\text{Log. } (1 + \frac{1}{x}) < \frac{1}{x} > \frac{6x + 3}{6x^2 + 6x + 1}$$

$$> \frac{2}{2x + 1} < \frac{30x^2 + 21x + 1}{30x^3 + 36x^2 + 9x}$$

$$< \frac{6x + 1}{6x^2 + 4x} &c.$$

T A B. XIII.

N.	log. hyperb.	N.	log. hyperb.	N.	log. hyperb.
1	0.0000000	34	3.5263605	67	4.2046926
2	0.6931472	35	3.5553481	68	4.2195077
3	1.0986123	36	3.5835189	69	4.2341065
4	1.3862943	37	3.6109179	70	4.2484952
5	1.6094379	38	3.6375862	71	4.2626799
6	1.7917595	39	3.6635616	72	4.2766661
7	1.9459101	40	3.6888794	73	4.2904594
8	2.0794415	41	3.7135720	74	4.3040651
9	2.1972246	42	3.7376696	75	4.3174881
10	2.3025851	43	3.7612000	76	4.3307333
11	2.3978953	44	3.7841896	77	4.3438054
12	2.4849066	45	3.8066625	78	4.3567088
13	2.5649493	46	3.8286414	79	4.3694478
14	2.6390573	47	3.8501475	80	4.3820266
15	2.7080502	48	3.8712010	81	4.3944491
16	2.7725887	49	3.8918203	82	4.4067191
17	2.8332133	50	3.9120230	83	4.4188406
18	2.8903718	51	3.9318256	84	4.4308168
19	2.9444390	52	3.9512437	85	4.4426512
20	2.9957323	53	3.9702919	86	4.4543473
21	3.0445224	54	3.9889840	87	4.4659081
22	3.0910425	55	4.0073332	88	4.4773368
23	3.1354942	56	4.0253517	89	4.4886364
24	3.1780538	57	4.0430513	90	4.4998097
25	3.2188758	58	4.0604430	91	4.5108595
26	3.2580965	59	4.0775373	92	4.5217886
27	3.2958369	60	4.0943446	93	4.5325995
28	3.3322045	61	4.1108738	94	4.5432946
29	3.3672958	62	4.1271344	95	4.5538769
30	3.4011974	63	4.1431347	96	4.5643482
31	3.4339872	64	4.1588831	97	4.5747110
32	3.4657359	65	4.1743873	98	4.5849675
33	3.4965076	66	4.1896547	99	4.5951199
34	3.5263605	67	4.2046926	100	4.6051702

T A B. XIV.

$$\log. 10 = 2,3025851$$

$$\log. 10^2 = 4,6051702$$

$$\log. 10^3 = 6,9077553$$

$$\log. 10^4 = 9,2103404$$

$$\log. 10^5 = 11,5129255$$

$$\log. 10^6 = 13,8155106$$

$$\log. 10^7 = 16,1180957$$

$$\log. 10^8 = 18,4206807$$

$$\log. 10^9 = 20,7232658$$

$$\log. 10^{10} = 23,0258509.$$

$$\log. (a + x) = \log. a + \frac{x}{a + \frac{1}{2}x} * + \frac{x^3}{12 a^3} + \&c.$$

$$= A$$

$$A - \log. a = b = \frac{x}{a + \frac{1}{2}x}$$

$$x = \frac{ab}{1 - \frac{1}{2}b}$$

$$\log. 1,8768 = \log. 1,87 + \frac{0,0068}{1,8734} = 0,6295681.$$

$$\log. 187,68 = \log. 10^2 + \log. 1,8768 = 5,2347383.$$

T A B. XV.

N.	Logarith.	N.	Logarith.	N.	Logarith.
1.01	0099503	1.34	2926696	1.67	5128236
1.02	0198026	1.35	3001045	1.68	5187937
1.03	0295588	1.36	3074846	1.69	5247285
1.04	0392207	1.37	3148107	1.70	5306282
1.05	0487902	1.38	3220834	1.71	5364933
1.06	0582689	1.39	3293037	1.72	5423242
1.07	0676586	1.40	3364722	1.73	5481214
1.08	0769610	1.41	3435897	1.74	5538851
1.09	0861777	1.42	3506568	1.75	5596157
1.10	0953102	1.43	3576744	1.76	5653138
1.11	1043600	1.44	3646431	1.77	5709795
1.12	1133287	1.45	3715635	1.78	5766133
1.13	1222176	1.46	3784364	1.79	5822156
1.14	1310283	1.47	3852624	1.80	5877866
1.15	1397619	1.48	3920420	1.81	5933268
1.16	1484200	1.49	3987761	1.82	5988365
1.17	1570037	1.50	4054651	1.83	6043159
1.18	1655144	1.51	4121096	1.84	6097655
1.19	1739533	1.52	4187103	1.85	6151856
1.20	1823215	1.53	4252677	1.86	6205764
1.21	1906203	1.54	4317824	1.87	6259384
1.22	1988508	1.55	4382549	1.88	6312717
1.23	2070141	1.56	4446858	1.89	6365768
1.24	2151113	1.57	4510756	1.90	6418538
1.25	2231435	1.58	4574248	1.91	6471032
1.26	2311117	1.59	4637340	1.92	6523251
1.27	2390169	1.60	4700036	1.93	6575200
1.28	2468600	1.61	4762341	1.94	6626879
1.29	2546422	1.62	4824261	1.95	6678293
1.30	2623642	1.63	4885800	1.96	6729444
1.31	2700271	1.64	4946962	1.97	6780335
1.32	2776317	1.65	5007752	1.98	6830968
1.33	2851789	1.66	5068175	1.99	6881346
1.34	2926696	1.67	5128236	2.00	6931472

P

TAB. XV.

N.	Logarith.	N.	Logarith.	N.	Logarith.
2.01	6981347	2.34	8501509	2.67	9820784
2.02	7030974	2.35	8541153	2.68	9858167
2.03	7080357	2.36	8580616	2.69	9895411
2.04	7129497	2.37	8628809	2.70	9932517
2.05	7178397	2.38	8671004	2.71	9969486
2.06	7227059	2.39	8712933	2.72	1.0006318
2.07	7275485	2.40	8754687	2.73	1.0043015
2.08	7323678	2.41	8796267	2.74	1.0079579
2.09	7371640	2.42	8837675	2.75	1.0116008
2.10	7419373	2.43	8878912	2.76	1.0152306
2.11	7466879	2.44	8919980	2.77	1.0188473
2.12	7514160	2.45	8960880	2.78	1.0224509
2.13	7561219	2.46	9001613	2.79	1.0260415
2.14	7608058	2.47	9042181	2.80	1.0296194
2.15	7654678	2.48	9082585	2.81	1.0331844
2.16	7701082	2.49	9122826	2.82	1.0367368
2.17	7747271	2.50	9162907	2.83	1.0402766
2.18	7793248	2.51	9202827	2.84	1.0438040
2.19	7839015	2.52	9242589	2.85	1.0473189
2.20	7884573	2.53	9282193	2.86	1.0508216
2.21	7929925	2.54	9321640	2.87	1.0543120
2.22	7975071	2.55	9360933	2.88	1.0577902
2.23	8020015	2.56	9400072	2.89	1.0612564
2.24	8064758	2.57	9439058	2.90	1.0647107
2.25	8109302	2.58	9477893	2.91	1.0681530
2.26	8153648	2.59	9516578	2.92	1.0715836
2.27	8197798	2.60	9555114	2.93	1.0750024
2.28	8241754	2.61	9593502	2.94	1.0784095
2.29	8285518	2.62	9631743	2.95	1.0818051
2.30	8329091	2.63	9669838	2.96	1.0851892
2.31	8372475	2.64	9707789	2.97	1.0885619
2.32	8415671	2.65	9745596	2.98	1.0919233
2.33	8458682	2.66	9783261	2.99	1.0952733
2.34	8501509	2.67	9820784	3.00	1.0986123

T A B. XV.

N.	Logarith.	N.	Logarith.	N.	Logarith.
3.01	1.1019400	3.34	1.2059707	3.67	1.3001916
3.02	1.1052568	3.35	1.2089603	3.68	1.3029127
3.03	1.1085626	3.36	1.2119409	3.69	1.3056264
3.04	1.1118575	3.37	1.2149127	3.70	1.3083328
3.05	1.1151415	3.38	1.2178757	3.71	1.3110318
3.06	1.1184149	3.39	1.2208299	3.72	1.3137236
3.07	1.1216775	3.40	1.2237754	3.73	1.3164082
3.08	1.1249295	3.41	1.2267122	3.74	1.3190856
3.09	1.1281710	3.42	1.2296405	3.75	1.3217558
3.10	1.1314021	3.43	1.2325605	3.76	1.3244189
3.11	1.1346227	3.44	1.2354714	3.77	1.3270749
3.12	1.1378330	3.45	1.2383742	3.78	1.3297240
3.13	1.1410330	3.46	1.2412685	3.79	1.3323660
3.14	1.1442227	3.47	1.2441545	3.80	1.3350010
3.15	1.1474024	3.48	1.2470322	3.81	1.3376291
3.16	1.1505720	3.49	1.2499017	3.82	1.3402504
3.17	1.1537315	3.50	1.2527629	3.83	1.3428648
3.18	1.1568811	3.51	1.2556160	3.84	1.3454723
3.19	1.1600209	3.52	1.2584609	3.85	1.3480731
3.20	1.1631508	3.53	1.2612978	3.86	1.3506671
3.21	1.1662709	3.54	1.2641266	3.87	1.3532544
3.22	1.1693813	3.55	1.2669475	3.88	1.3558351
3.23	1.1724821	3.56	1.2697605	3.89	1.3584091
3.24	1.1755733	3.57	1.2725655	3.90	1.3609765
3.25	1.1786549	3.58	1.2753627	3.91	1.3635373
3.26	1.1817271	3.59	1.2781521	3.92	1.3660916
3.27	1.1847899	3.60	1.2809338	3.93	1.3686394
3.28	1.1878434	3.61	1.2837077	3.94	1.3711807
3.29	1.1908875	3.62	1.2864740	3.95	1.3737156
3.30	1.1939224	3.63	1.2892326	3.96	1.3762440
3.31	1.1969481	3.64	1.2919836	3.97	1.3787661
3.32	1.1999647	3.65	1.2947271	3.98	1.3812818
3.33	1.2029722	3.66	1.2974631	3.99	1.3837912
3.34	1.2059707	3.67	1.3001916	4.00	1.3862943

TAB. XV.

N.	Logarith.	N.	Logarith.	N.	Logarith.
4.01	1.3887912	4.34	1.4678743	4.67	1.5411590
4.02	1.3912818	4.35	1.4701758	4.68	1.5432981
4.03	1.3937563	4.36	1.4724720	4.69	1.5454325
4.04	1.3962446	4.37	1.4747630	4.70	1.5475625
4.05	1.3987168	4.38	1.4770487	4.71	1.5496879
4.06	1.4011829	4.39	1.4793292	4.72	1.5518087
4.07	1.4036429	4.40	1.4816045	4.73	1.5539252
4.08	1.4060969	4.41	1.4838746	4.74	1.5560371
4.09	1.4085449	4.42	1.4861396	4.75	1.5581446
4.10	1.4109869	4.43	1.4883995	4.76	1.5602476
4.11	1.4134230	4.44	1.4906543	4.77	1.5623462
4.12	1.4158531	4.45	1.4929040	4.78	1.5644405
4.13	1.4182774	4.46	1.4951487	4.79	1.5665504
4.14	1.4206957	4.47	1.4973883	4.80	1.5686159
4.15	1.4231083	4.48	1.4996230	4.81	1.5706971
4.16	1.4255150	4.49	1.5018527	4.82	1.5727739
4.17	1.4279160	4.50	1.5040774	4.83	1.5748464
4.18	1.4303112	4.51	1.5062971	4.84	1.5769147
4.19	1.4327007	4.52	1.5085119	4.85	1.5789787
4.20	1.4350845	4.53	1.5107219	4.86	1.5810384
4.21	1.4374626	4.54	1.5129269	4.87	1.5830939
4.22	1.4398351	4.55	1.5151272	4.88	1.5851452
4.23	1.4422020	4.56	1.5173226	4.89	1.5871923
4.24	1.4445632	4.57	1.5195132	4.90	1.5892352
4.25	1.4469189	4.58	1.5216990	4.91	1.5912739
4.26	1.4492691	4.59	1.5238800	4.92	1.5933085
4.27	1.4516138	4.60	1.5260563	4.93	1.5953389
4.28	1.4539530	4.61	1.5282278	4.94	1.5973653
4.29	1.4562867	4.62	1.5303947	4.95	1.5993875
4.30	1.4586149	4.63	1.5325568	4.96	1.6014057
4.31	1.4609379	4.64	1.5347143	4.97	1.6034198
4.32	1.4632553	4.65	1.5368672	4.98	1.6054298
4.33	1.4655675	4.66	1.5390154	4.99	1.6074358
4.34	1.4678743	4.67	1.5411590	5.00	1.6094379

TAB. XV.

N.	Logarith.	N.	Logarith.	N.	Logarith.
5.01	1.6114359	5.34	1.6752256	5.67	1.7351891
5.02	1.6134300	5.35	1.6770965	5.68	1.7369512
5.03	1.6154200	5.36	1.6789639	5.69	1.7387102
5.04	1.6174060	5.37	1.6808278	5.70	1.7404661
5.05	1.6193882	5.38	1.6826882	5.71	1.7422189
5.06	1.6213664	5.39	1.6845453	5.72	1.7439687
5.07	1.6233408	5.40	1.6863989	5.73	1.7457155
5.08	1.6253112	5.41	1.6882491	5.74	1.7474591
5.09	1.6272778	5.42	1.6900958	5.75	1.7491998
5.10	1.6292405	5.43	1.6919391	5.76	1.7509374
5.11	1.6311994	5.44	1.6937790	5.77	1.7526720
5.12	1.6331544	5.45	1.6956155	5.78	1.7544036
5.13	1.6351056	5.46	1.6974487	5.79	1.7561323
5.14	1.6370530	5.47	1.6992786	5.80	1.7578579
5.15	1.6389967	5.48	1.7011051	5.81	1.7595805
5.16	1.6409365	5.49	1.7029282	5.82	1.7613002
5.17	1.6428726	5.50	1.7047481	5.83	1.7630170
5.18	1.6448050	5.51	1.7065646	5.84	1.7647308
5.19	1.6467336	5.52	1.7083778	5.85	1.7664416
5.20	1.6486586	5.53	1.7101878	5.86	1.7681496
5.21	1.6505798	5.54	1.7119944	5.87	1.7698546
5.22	1.6524974	5.55	1.7137979	5.88	1.7715567
5.23	1.6544112	5.56	1.7155981	5.89	1.7732559
5.24	1.6563214	5.57	1.7173950	5.90	1.7749523
5.25	1.6582280	5.58	1.7191887	5.91	1.7766458
5.26	1.6601310	5.59	1.7209792	5.92	1.7783364
5.27	1.6620303	5.60	1.7227666	5.93	1.7800242
5.28	1.6639260	5.61	1.7245507	5.94	1.7817091
5.29	1.6658182	5.62	1.7263316	5.95	1.7833912
5.30	1.6677068	5.63	1.7281094	5.96	1.7850704
5.31	1.6695918	5.64	1.7298840	5.97	1.7867469
5.32	1.6714733	5.65	1.7316555	5.98	1.7884205
5.33	1.6733512	5.66	1.7334238	5.99	1.7900914
5.34	1.6752256	5.67	1.7351891	6.00	1.7917594

TAB. XV.

N.	Logarith.	N.	Logarith.	N.	Logarith.
6.01	1.7934247	6.34	1.8468787	6.67	1.8976198
6.02	1.7950872	6.35	1.8484547	6.68	1.8991179
6.03	1.7967470	6.36	1.8500283	6.69	1.9006138
6.04	1.7984040	6.37	1.8515994	6.70	1.9021075
6.05	1.8000582	6.38	1.8531680	6.71	1.9035989
6.06	1.8017098	6.39	1.8547342	6.72	1.9050881
6.07	1.8033586	6.40	1.8562979	6.73	1.9065751
6.08	1.8050047	6.41	1.8578592	6.74	1.9080600
6.09	1.8066481	6.42	1.8594181	6.75	1.9095425
6.10	1.8082887	6.43	1.8609745	6.76	1.9110228
6.11	1.8099267	6.44	1.8625285	6.77	1.9125011
6.12	1.8115621	6.45	1.8640801	6.78	1.9139771
6.13	1.8131947	6.46	1.8656293	6.79	1.9154509
6.14	1.8148247	6.47	1.8671761	6.80	1.9169226
6.15	1.8164520	6.48	1.8687205	6.81	1.9183921
6.16	1.8180767	6.49	1.8702625	6.82	1.9198594
6.17	1.8196988	6.50	1.8718021	6.83	1.9213247
6.18	1.8213182	6.51	1.8733394	6.84	1.9227877
6.19	1.8229351	6.52	1.8748743	6.85	1.9242486
6.20	1.8245493	6.53	1.8764069	6.86	1.9257074
6.21	1.8261608	6.54	1.8779371	6.87	1.9271641
6.22	1.8277699	6.55	1.8794650	6.88	1.9286186
6.23	1.8293763	6.56	1.8809906	6.89	1.9300710
6.24	1.8309801	6.57	1.8825138	6.90	1.9315214
6.25	1.8325814	6.58	1.8840347	6.91	1.9329696
6.26	1.8341801	6.59	1.8855533	6.92	1.9344157
6.27	1.8357763	6.60	1.8870696	6.93	1.9358598
6.28	1.8373699	6.61	1.8885837	6.94	1.9373017
6.29	1.8389610	6.62	1.8900954	6.95	1.9387416
6.30	1.8405496	6.63	1.8916048	6.96	1.9401794
6.31	1.8421356	6.64	1.8931119	6.97	1.9416152
6.32	1.8437191	6.65	1.8946168	6.98	1.9430489
6.33	1.8453002	6.66	1.8961194	6.99	1.9444805
6.34	1.8468787	6.67	1.8976198	7.00	1.9459101

T A B. X V.

N.	Logarith.	N.	Logarith.	N.	Logarith.
7.01	1.9473376	7.34	1.9933387	7.67	2.0373166
7.02	1.9487632	7.35	1.9947002	7.68	2.0386195
7.03	1.9501866	7.36	1.9960599	7.69	2.0399207
7.04	1.9516080	7.37	1.9974177	7.70	2.0412203
7.05	1.9530275	7.38	1.9987736	7.71	2.0425181
7.06	1.9544449	7.39	2.0001278	7.72	2.0438143
7.07	1.9558604	7.40	2.0014800	7.73	2.0451088
7.08	1.9572739	7.41	2.0028305	7.74	2.0464016
7.09	1.9586853	7.42	2.0041790	7.75	2.0476928
7.10	1.9600947	7.43	2.0055258	7.76	2.0489823
7.11	1.9615022	7.44	2.0068708	7.77	2.0502701
7.12	1.9629077	7.45	2.0082140	7.78	2.0515563
7.13	1.9643112	7.46	2.0095553	7.79	2.0528408
7.14	1.9657127	7.47	2.0108949	7.80	2.0541237
7.15	1.9671123	7.48	2.0122327	7.81	2.0554049
7.16	1.9685099	7.49	2.0135687	7.82	2.0566845
7.17	1.9699056	7.50	2.0149030	7.83	2.0579624
7.18	1.9712993	7.51	2.0162354	7.84	2.0592388
7.19	1.9726911	7.52	2.0175661	7.85	2.0605135
7.20	1.9740810	7.53	2.0188950	7.86	2.0617866
7.21	1.9754689	7.54	2.0202221	7.87	2.0630580
7.22	1.9768549	7.55	2.0215475	7.88	2.0643278
7.23	1.9782390	7.56	2.0228711	7.89	2.0655961
7.24	1.9796212	7.57	2.0241929	7.90	2.0668627
7.25	1.9810014	7.58	2.0255131	7.91	2.0681277
7.26	1.9823798	7.59	2.0268315	7.92	2.0693911
7.27	1.9837562	7.60	2.0281482	7.93	2.0706530
7.28	1.9851308	7.61	2.0294631	7.94	2.0719132
7.29	1.9865035	7.62	2.0307763	7.95	2.0731719
7.30	1.9878743	7.63	2.0320878	7.96	2.0744290
7.31	1.9892432	7.64	2.0333976	7.97	2.0756845
7.32	1.9906103	7.65	2.0347056	7.98	2.0769384
7.33	1.9919754	7.66	2.0360119	7.99	2.0781907
7.34	1.9933387	7.67	2.0373166	8.00	2.0794415

TAB. XV.

N.	Logarith.	N.	Logarith.	N.	Logarith.
8.01	2.0806907	8.34	2.1210632	8.67	2.1598687
8.02	2.0819384	8.35	2.1222615	8.68	2.1610215
8.03	2.0831845	8.36	2.1234584	8.69	2.1621729
8.04	2.0844290	8.37	2.1246539	8.70	2.1633230
8.05	2.0856720	8.38	2.1258479	8.71	2.1644718
8.06	2.0869135	8.39	2.1270405	8.72	2.1656192
8.07	2.0881534	8.40	2.1282317	8.73	2.1667653
8.08	2.0893918	8.41	2.1294214	8.74	2.1679101
8.09	2.0906287	8.42	2.1306098	8.75	2.1690536
8.10	2.0918640	8.43	2.1317967	8.76	2.1701959
8.11	2.0930984	8.44	2.1329822	8.77	2.1713367
8.12	2.0943306	8.45	2.1341664	8.78	2.1724763
8.13	2.0955613	8.46	2.1353491	8.79	2.1736146
8.14	2.0967905	8.47	2.1365304	8.80	2.1747517
8.15	2.0980182	8.48	2.1377104	8.81	2.1758874
8.16	2.0992444	8.49	2.1388889	8.82	2.1770218
8.17	2.1004691	8.50	2.1400661	8.83	2.1781550
8.18	2.1016923	8.51	2.1412419	8.84	2.1792868
8.19	2.1029140	8.52	2.1424163	8.85	2.1804174
8.20	2.1041341	8.53	2.1435893	8.86	2.1815467
8.21	2.1053529	8.54	2.1447609	8.87	2.1826747
8.22	2.1065702	8.55	2.1459312	8.88	2.1838015
8.23	2.1077861	8.56	2.1471001	8.89	2.1849270
8.24	2.1089998	8.57	2.1482676	8.90	2.1860512
8.25	2.1102128	8.58	2.1494339	8.91	2.1871742
8.26	2.1114243	8.59	2.1505987	8.92	2.1882959
8.27	2.1126343	8.60	2.1517622	8.93	2.1894163
8.28	2.1138428	8.61	2.1529243	8.94	2.1905355
8.29	2.1150499	8.62	2.1540851	8.95	2.1916535
8.30	2.1162555	8.63	2.1552445	8.96	2.1927702
8.31	2.1174596	8.64	2.1564026	8.97	2.1938856
8.32	2.1186622	8.65	2.1575593	8.98	2.1949998
8.33	2.1198634	8.66	2.1587147	8.99	2.1961128
8.34	2.1210632	8.67	2.1598687	9.00	2.1972245

TAB. XV.

N.	Logarith.	N.	Logarith.	N.	Logarith.
9.01	2.1983350	9.34	2.2343062	9.67	2.2690282
9.02	2.1994443	9.35	2.2353763	9.68	2.2700618
9.03	2.2005523	9.36	2.2364452	9.69	2.2710944
9.04	2.2016591	9.37	2.2375130	9.70	2.2721258
9.05	2.2027647	9.38	2.2385797	9.71	2.2731562
9.06	2.2038691	9.39	2.2396452	9.72	2.2741856
9.07	2.2049722	9.40	2.2407096	9.73	2.2752138
9.08	2.2060741	9.41	2.2417729	9.74	2.2762411
9.09	2.2071748	9.42	2.2428350	9.75	2.2772673
9.10	2.2082744	9.43	2.2438960	9.76	2.2782924
9.11	2.2093727	9.44	2.2449559	9.77	2.2793165
9.12	2.2104697	9.45	2.2460147	9.78	2.2803395
9.13	2.2115656	9.46	2.2470723	9.79	2.2813614
9.14	2.2126603	9.47	2.2481288	9.80	2.2823823
9.15	2.2137538	9.48	2.2491843	9.81	2.2834022
9.16	2.2148461	9.49	2.2502386	9.82	2.2844211
9.17	2.2159372	9.50	2.2512917	9.83	2.2854389
9.18	2.2170272	9.51	2.2523438	9.84	2.2864556
9.19	2.2181160	9.52	2.2533948	9.85	2.2874714
9.20	2.2192034	9.53	2.2544446	9.86	2.2884861
9.21	2.2202898	9.54	2.2554934	9.87	2.2895098
9.22	2.2213750	9.55	2.2565411	9.88	2.2905124
9.23	2.2224590	9.56	2.2575877	9.89	2.2915241
9.24	2.2235418	9.57	2.2586332	9.90	2.2925347
9.25	2.2246235	9.58	2.2596776	9.91	2.2935443
9.26	2.2257040	9.59	2.2607209	9.92	2.2945529
9.27	2.2267833	9.60	2.2617631	9.93	2.2955604
9.28	2.2278615	9.61	2.2628042	9.94	2.2965670
9.29	2.2289385	9.62	2.2638442	9.95	2.2975725
9.30	2.2300144	9.63	2.2648832	9.96	2.2985770
9.31	2.2310890	9.64	2.2659211	9.97	2.2995806
9.32	2.2321626	9.65	2.2669579	9.98	2.3005831
9.33	2.2332350	9.66	2.2679936	9.99	2.3015846
9.34	2.2343062	9.67	2.2690282	10.00	2.3025851

TAB. XVI.

LOGARITHMI HYPERBOLICI.

log. 1	=	0,00000	,00000	,00000	,00000	,00000.
log. 2	=	0,69314	71805	59945	30941	72321
log. 3	=	1,09861	22886	68109	69139	52452
log. 4	=	1,38629	43611	19890	61883	44642
log. 5	=	1,60943	79124	34100	37460	07593
log. 6	=	1,79175	94692	28055	00081	24773
log. 7	=	1,94591	01490	55313	30510	54639
log. 8	=	2,07944	15416	79835	92825	16964
log. 9	=	2,19722	45773	36219	38279	04905
log. 10	=	2,30258	50929	94045	68401	79914

BASIS LOGARITHMORUM
BRIGGIANORUM.

$$\frac{1}{\log. 10} = 0,43429 \ 44819 \ 03251 \ 82765 \ 11289.$$

TAB. XVII.

2ⁿ. 3^m. 5^p. 7^l.

1	64	225	512	1000	1715	2688	4050	6000	8192
2	70	240	525	1008	1728	2700	4096	6048	8232
3	72	243	540	1024	1750	2744	4116	6075	8400
4	75	245	560	1029	1764	2800	4200	6125	8505
5	80	250	567	1050	1792	2835	4320	6144	8575
6	81	252	576	1080	1800	2880	4374	6175	8640
7	84	256	588	1120	1844	2916	4375	6250	8748
8	90	270	600	1125	1875	2940	4410	6272	8750
9	96	280	625	1134	1890	3000	4480	6300	8820
10	98	288	630	1152	1920	3072	4500	6400	8960
12	100	294	640	1176	1960	3087	4536	6480	9000
14	105	300	648	1200	2000	3125	4608	6561	9072
15	108	315	672	1215	2016	3136	4704	6615	9216
16	112	320	675	1225	2025	3150	4725	6720	9375
18	120	324	686	1250	2048	3200	4800	6750	9408
20	125	336	700	1260	2058	3240	4802	6804	9450
21	126	343	720	1280	2100	3360	4860	6860	9600
24	128	350	729	1296	2160	3375	4900	6912	9604
25	135	360	735	1323	2187	3402	5000	7000	9720
27	140	375	750	1344	2205	3430	5040	7056	9800
28	144	378	756	1350	2240	3456	5103	7168	10000
30	147	384	768	1372	2250	3500	5120	7200	10080
32	150	392	784	1400	2268	3528	5145	7203	10125
35	160	400	800	1440	2304	3584	5184	7250	10206
36	162	405	810	1458	2352	3600	5250	7350	10240
40	168	420	840	1470	2400	3645	5292	7376	10290
42	175	432	864	1500	2401	3675	5376	7500	10368
45	180	441	875	1512	2430	3688	5400	7560	10500
48	189	448	882	1536	2450	3750	5488	7680	10584
49	192	450	896	1568	2500	3780	5600	7840	10742
50	196	480	900	1575	2520	3840	5625	7875	10800
54	200	486	945	1600	2560	3920	5670	7938	10935
56	210	490	960	1620	2592	3969	5760	8000	10976
60	216	500	972	1680	2625	4000	5832	8064	11025
63	224	504	980	1701	2646	4032	5880	8100	11200

TAB. XVIII.
FUNCTIONES HYPERBOLICAE.

log. hyp. $e = 1$.

$$\text{fin. hyp. } \omega = \frac{e^{\omega} - e^{-\omega}}{2}$$

$$\text{cof. hyp. } \omega = \frac{e^{\omega} + e^{-\omega}}{2}$$

$$\begin{aligned} \text{fin. } b(y+z) &= \text{fin. } by \cdot \text{cof. } bz + \text{cof. } by \cdot \text{fin. } bz \\ \text{fin. } b(y-z) &= \text{fin. } by \cdot \text{cof. } bz - \text{cof. } by \cdot \text{fin. } bz \\ \text{cof. } b(y+z) &= \text{cof. } by \cdot \text{cof. } bz + \text{fin. } by \cdot \text{fin. } bz \\ \text{cof. } b(y-z) &= \text{cof. } by \cdot \text{cof. } bz - \text{fin. } by \cdot \text{fin. } bz \end{aligned}$$

$$\begin{aligned} 2 \text{ fin. } by \cdot \text{cof. } bz &= \text{fin. } b(y+z) + \text{fin. } b(y-z) \\ 2 \text{ cof. } by \cdot \text{cof. } bz &= \text{fin. } b(y+z) - \text{fin. } b(y-z) \\ 2 \text{ cof. } by \cdot \text{fin. } bz &= \text{cof. } b(y+z) + \text{cof. } b(y-z) \\ 2 \text{ fin. } by \cdot \text{fin. } bz &= \text{cof. } b(y+z) - \text{cof. } b(y-z) \end{aligned}$$

$$\text{fin. } by + \text{fin. } bz = 2 \text{ fin. } b \frac{y+z}{2} \text{ cof. } b \frac{y-z}{2}$$

$$\text{fin. } by - \text{fin. } bz = 2 \text{ cof. } b \frac{y+z}{2} \cdot \text{fin. } b \frac{y-z}{2}$$

$$\text{cof. } by + \text{cof. } bz = 2 \text{ cof. } b \frac{y+z}{2} \cdot \text{cof. } b \frac{y-z}{2}$$

$$\text{cof. } by - \text{cof. } bz = 2 \text{ fin. } b \frac{y+z}{2} \cdot \text{fin. } b \frac{y-z}{2}$$

$$\text{tang. } by = \text{fin. } by : \text{cof. } by$$

$$\text{cot. } by = \text{cof. } by : \text{fin. } by$$

$$\text{tang. } b(y+z) = \frac{\text{tang. } by + \text{tang. } bz}{1 + \text{tang. } by \cdot \text{tang. } bz}$$

$$\text{tang. } b(y-z) = \frac{\text{tang. } by - \text{tang. } bz}{1 - \text{tang. } by \cdot \text{tang. } bz}$$

$$2 (\text{fin. } by)^2 = \text{cof. } b^2 y - 1$$

$$2 (\text{cof. } by)^2 = \text{cof. } b^2 y + 1$$

$$(\text{cof. } by)^2 - (\text{fin. } by)^2 = 1$$

$$(\text{cof. } by)^2 + (\text{fin. } by)^2 = \text{cof. } b^2 y$$

TAB. XIX.

SINUS TERNORUM GRADUUM
QUADRANTIS.

$$\begin{aligned} \sin. 3^\circ &= \frac{1}{8} \sqrt{5+\sqrt{5}} + \frac{1}{8} \sqrt{\frac{11}{2}} - \frac{1}{8} \sqrt{\frac{1}{2}} \\ &\quad - \frac{1}{8} \sqrt{15+3\sqrt{5}} + \frac{1}{8} \sqrt{\frac{1}{2}} - \frac{1}{8} \sqrt{\frac{1}{2}} \end{aligned}$$

$$\sin. 6^\circ = \frac{1}{8} \sqrt{30-6\sqrt{5}} - \frac{1}{8} \sqrt{5} - \frac{1}{8}$$

$$\sin. 9^\circ = \frac{1}{4} \sqrt{\frac{1}{2}} + \frac{1}{4} \sqrt{\frac{1}{2}} - \frac{1}{4} \sqrt{5-\sqrt{5}}$$

$$\sin. 12^\circ = \frac{1}{8} \sqrt{10+2\sqrt{5}} - \frac{1}{8} \sqrt{15} + \frac{1}{8} \sqrt{3}$$

$$\sin. 15^\circ = \sqrt{\frac{1}{8}} - \sqrt{\frac{1}{8}}$$

$$\sin. 18^\circ = \frac{1}{4} \sqrt{5} - \frac{1}{4}$$

$$\begin{aligned} \sin. 21^\circ &= \frac{1}{8} \sqrt{15-3\sqrt{5}} + \frac{1}{8} \sqrt{\frac{1}{2}} + \frac{1}{8} \sqrt{\frac{1}{2}} \\ &\quad - \frac{1}{8} \sqrt{\frac{11}{2}} - \frac{1}{8} \sqrt{\frac{1}{2}} + \frac{1}{8} \sqrt{5-\sqrt{5}} \end{aligned}$$

$$\sin. 24^\circ = \frac{1}{8} \sqrt{15} + \frac{1}{8} \sqrt{3} - \frac{1}{8} \sqrt{10-2\sqrt{5}}$$

$$\sin. 27^\circ = \frac{1}{4} \sqrt{5+\sqrt{5}} - \frac{1}{4} \sqrt{\frac{1}{2}} + \frac{1}{4} \sqrt{\frac{1}{2}}$$

$$\sin. 30^\circ = \frac{1}{2}$$

$$\begin{aligned} \sin. 33^\circ &= \frac{1}{8} \sqrt{15+3\sqrt{5}} + \frac{1}{8} \sqrt{\frac{1}{2}} - \frac{1}{8} \sqrt{\frac{1}{2}} \\ &\quad - \frac{1}{8} \sqrt{5+\sqrt{5}} + \frac{1}{8} \sqrt{\frac{11}{2}} - \frac{1}{8} \sqrt{\frac{1}{2}} \end{aligned}$$

$$\sin. 36^\circ = \frac{1}{4} \sqrt{10-2\sqrt{5}}$$

$$\begin{aligned} \sin. 39^\circ &= \frac{1}{8} \sqrt{\frac{11}{2}} + \frac{1}{8} \sqrt{\frac{1}{2}} + \frac{1}{8} \sqrt{5-\sqrt{5}} \\ &\quad - \frac{1}{8} \sqrt{15-3\sqrt{5}} + \frac{1}{8} \sqrt{\frac{1}{2}} + \frac{1}{8} \sqrt{\frac{1}{2}} \end{aligned}$$

$$\sin. 42^\circ = \frac{1}{8} \sqrt{30+6\sqrt{5}} - \frac{1}{8} \sqrt{5} + \frac{1}{8}$$

$$\sin. 45^\circ = \sqrt{\frac{1}{2}}$$

TAB. XIX.

SINUS TERNORUM GRADUUM
QUADRANTIS.

$$\sin. 48^\circ = \frac{1}{8} \sqrt{(10+2\sqrt{5})} + \frac{1}{8} \sqrt{15} - \frac{1}{8} \sqrt{3}$$

$$\sin. 51^\circ = \frac{1}{8} \sqrt{\frac{11}{2}} + \frac{1}{8} \sqrt{\frac{1}{2}} + \frac{1}{8} \sqrt{(5-\sqrt{5})}$$

$$+ \frac{1}{8} \sqrt{(15-3\sqrt{5})} - \frac{1}{8} \sqrt{\frac{1}{2}} - \frac{1}{8} \sqrt{\frac{1}{2}}$$

$$\sin. 54^\circ = \frac{1}{4} \sqrt{5} + \frac{1}{4}$$

$$\sin. 57^\circ = \frac{1}{8} \sqrt{(15+3\sqrt{5})} + \frac{1}{8} \sqrt{\frac{1}{2}} - \frac{1}{8} \sqrt{\frac{1}{2}}$$

$$+ \frac{1}{8} \sqrt{(5+\sqrt{5})} - \frac{1}{8} \sqrt{\frac{11}{2}} + \frac{1}{8} \sqrt{\frac{1}{2}}$$

$$\sin. 60^\circ = \frac{1}{2} \sqrt{3}$$

$$\sin. 63^\circ = \frac{1}{4} \sqrt{(5+\sqrt{5})} + \frac{1}{4} \sqrt{\frac{1}{2}} - \frac{1}{4} \sqrt{\frac{1}{2}}$$

$$\sin. 66^\circ = \frac{1}{8} \sqrt{(30-6\sqrt{5})} + \frac{1}{8} \sqrt{5} + \frac{1}{8}$$

$$\sin. 69^\circ = \frac{1}{8} \sqrt{(15-3\sqrt{5})} + \frac{1}{8} \sqrt{\frac{1}{2}} + \frac{1}{8} \sqrt{\frac{1}{2}}$$

$$+ \frac{1}{8} \sqrt{\frac{11}{2}} + \frac{1}{8} \sqrt{\frac{1}{2}} - \frac{1}{8} \sqrt{(5-\sqrt{5})}$$

$$\sin. 72^\circ = \frac{1}{4} \sqrt{(10+2\sqrt{5})}$$

$$\sin. 75^\circ = \sqrt{\frac{1}{8}} + \sqrt{\frac{1}{8}}$$

$$\sin. 78^\circ = \frac{1}{8} \sqrt{(30+6\sqrt{5})} + \frac{1}{8} \sqrt{5} - \frac{1}{8}$$

$$\sin. 81^\circ = \frac{1}{4} \sqrt{\frac{1}{2}} + \frac{1}{4} \sqrt{\frac{1}{2}} + \frac{1}{4} \sqrt{(5-\sqrt{5})}$$

$$\sin. 84^\circ = \frac{1}{8} \sqrt{15} + \frac{1}{8} \sqrt{3} + \frac{1}{8} \sqrt{(10-2\sqrt{5})}$$

$$\sin. 87^\circ = \frac{1}{8} \sqrt{(5+\sqrt{5})} + \frac{1}{8} \sqrt{\frac{11}{2}} - \frac{1}{8} \sqrt{\frac{1}{2}}$$

$$+ \frac{1}{8} \sqrt{(15+3\sqrt{5})} - \frac{1}{8} \sqrt{\frac{1}{2}} + \frac{1}{8} \sqrt{\frac{1}{2}}$$

$$\sin. 90^\circ = 1.$$

TAB. XX. RELACIONES FUNCTION. CIRCUL. 127

$$\begin{aligned} \sin. (y + z) &= \sin. y. \cos. z + \cos. y. \sin. z \\ \sin. (y - z) &= \sin. y. \cos. z - \cos. y. \sin. z \\ \cos. (y + z) &= \cos. y. \cos. z - \sin. y. \sin. z \\ \cos. (y - z) &= \cos. y. \cos. z + \sin. y. \sin. z \end{aligned}$$

$$\begin{aligned} 2 \sin. y. \cos. z &= \sin. (y + z) + \sin. (y - z) \\ 2 \sin. z. \cos. y &= \sin. (y + z) - \sin. (y - z) \\ 2 \cos. y. \cos. z &= \cos. (y - z) + \cos. (y + z) \\ 2 \sin. y. \sin. z &= \cos. (y - z) - \cos. (y + z) \end{aligned}$$

$$\sin. y + \sin. z = 2. \sin. \frac{y+z}{2}. \cos. \frac{y-z}{2}$$

$$\sin. y - \sin. z = 2. \cos. \frac{y+z}{2}. \sin. \frac{y-z}{2}$$

$$\cos. y + \cos. z = 2. \cos. \frac{y+z}{2}. \cos. \frac{y-z}{2}$$

$$\cos. y - \cos. z = 2. \sin. \frac{y+z}{2}. \sin. \frac{y-z}{2}$$

$$\begin{aligned} \text{tang. } (y + z) &= (\text{tang. } y + \text{tang. } z) : (1 - \text{tang. } y. \text{tang. } z) \\ \text{tang. } (y - z) &= (\text{tang. } y - \text{tang. } z) : (1 + \text{tang. } y. \text{tang. } z) \\ \text{cot. } (y + z) &= (\text{cot. } y. \text{cot. } z - 1) : (\text{cot. } z + \text{cot. } y) \\ \text{cot. } (y - z) &= (\text{cot. } y. \text{cot. } z + 1) : (\text{cot. } z - \text{cot. } y) \end{aligned}$$

$$(\sin. y + \sin. z) : (\sin. y - \sin. z) = \text{tang. } \frac{y+z}{2} : \text{tang. } \frac{y-z}{2}$$

$$(\cos. y + \cos. z) : (\cos. z - \cos. y) = \text{cot. } \frac{y+z}{2} : \text{tang. } \frac{y-z}{2}$$

$$(\sin. y + \sin. z) : (\cos. y + \cos. z) = \text{tang. } \frac{y+z}{2} : 1$$

$$(\sin. y + \sin. z) : (\cos. z - \cos. y) = 1 : \text{tang. } \frac{y-z}{2}$$

$$(\sin. y - \sin. z) : (\cos. y + \cos. z) = \text{tang. } \frac{y-z}{2} : 1$$

$$(\sin. y - \sin. z) : (\cos. z - \cos. y) = 1 : \text{tang. } \frac{y+z}{2}$$

TAB. XX.

$$(\text{tang. } y + \text{t. } z) : (\text{t. } y - \text{t. } z) = \text{fin. } (y + z) : \text{f. } (y - z)$$

$$(\text{cot. } z + \text{cot. } y) : (\text{cot. } z - \text{cot. } y) = \text{fin. } (y + z) : \text{f. } (y - z)$$

$$(\text{tang. } y + \text{tang. } z) : (\text{cot. } z + \text{cot. } y) = \text{tang. } y : \text{cot. } z$$

$$(\text{tang. } y - \text{tang. } z) : (\text{cot. } z - \text{cot. } y) = \text{tang. } y : \text{cot. } z$$

$$(\text{f. } y + \text{f. } z) : (\text{cof. } y + \text{cof. } z) = (\text{cof. } z - \text{cof. } y) : (\text{f. } y - \text{f. } z)$$

$$\text{fin. } 2y = 2 \text{ tang. } y : (1 + \text{tang. } y^2)$$

$$\text{tang. } 2y = 2 \text{ tang. } y : (1 - \text{tang. } y^2)$$

$$\text{cof. } 2y = (1 - \text{tang. } y^2) : (1 + \text{tang. } y^2)$$

$$2 \text{ fin. } y^2 = 1 - \text{cof. } 2y$$

$$2 \text{ cof. } y^2 = 1 + \text{cof. } 2y$$

$$\text{cof. } y^2 - \text{fin. } y^2 = \text{cof. } 2y$$

$$\text{cof. } y + \text{fin. } y = \text{fin. } (45^\circ + y) \cdot \sqrt{2}$$

$$\text{cof. } y - \text{fin. } y = \text{fin. } (45^\circ - y) \cdot \sqrt{2}$$

$$\text{tang. } \frac{1}{2}y = \text{fin. } y : (1 + \text{cof. } y) = (1 - \text{cof. } y) : \text{fin. } y$$

$$\text{tang. } (45^\circ + y) = \frac{1 + \text{tang. } y}{1 - \text{tang. } y} = \sqrt{\frac{1 + \text{fin. } 2y}{1 - \text{fin. } 2y}}$$

$$\text{cot. } y - \text{tang. } y = 2 \text{ cot. } 2y$$

$$\text{cot. } y + \text{tang. } y = 2 \text{ cofec } 2y$$

$$\text{cofec } 2y = \text{tang. } y + \text{cot. } 2y = \text{cot. } y - \text{cot. } 2y$$

$$\text{fin. } \frac{1}{2}y = \frac{1}{2} \sqrt{(1 + \text{f. } y)} - \frac{1}{2} \sqrt{(1 - \text{f. } y)} = \sqrt{\frac{1 - \text{cof. } y}{2}}$$

$$\text{cof. } \frac{1}{2}y = \frac{1}{2} \sqrt{(1 + \text{f. } y)} + \frac{1}{2} \sqrt{(1 - \text{f. } y)} = \sqrt{\frac{1 + \text{cof. } y}{2}}$$

$$\text{fin. } y^2 - \text{f. } z^2 = \text{f. } y^2 \cdot \text{cof. } z^2 - \text{cof. } y^2 \cdot \text{f. } z^2 = \text{f. } (y + z) \cdot \text{f. } (y - z)$$

T A B. XX.

$$\begin{aligned} \text{col. } \varphi &= \text{col. } \varphi \\ 2. \text{ col. } \varphi^2 &= \text{col. } 2 \varphi + \frac{\pi}{2} \\ 4. \text{ col. } \varphi^3 &= \text{col. } 3 \varphi + 3 \text{ col. } \varphi \\ 8. \text{ col. } \varphi^4 &= \text{col. } 4 \varphi + 4 \text{ col. } 2 \varphi + \frac{\pi}{2} \\ 16. \text{ col. } \varphi^5 &= \text{col. } 5 \varphi + 5 \text{ col. } 3 \varphi + 10 \text{ col. } \varphi \\ 32. \text{ col. } \varphi^6 &= \text{col. } 6 \varphi + 6 \text{ col. } 4 \varphi + 15 \text{ col. } 2 \varphi + \frac{3\pi}{2} \\ 64. \text{ col. } \varphi^7 &= \text{col. } 7 \varphi + 7 \text{ col. } 5 \varphi + 21 \text{ col. } 3 \varphi + 35 \text{ col. } \varphi \end{aligned}$$

$$\begin{aligned} \text{sin. } \varphi &= \text{sin. } \varphi \\ 2. \text{ sin. } \varphi^2 &= \frac{\pi}{2} - \text{col. } 2 \varphi \\ 4. \text{ sin. } \varphi^3 &= 3 \text{ sin. } \varphi - \text{sin. } 3 \varphi \\ 8. \text{ sin. } \varphi^4 &= \frac{\pi}{2} - 4 \text{ col. } 2 \varphi + \text{col. } 4 \varphi \\ 16. \text{ sin. } \varphi^5 &= 10 \text{ sin. } \varphi - 5 \text{ sin. } 3 \varphi + \text{sin. } 5 \varphi \\ 32. \text{ sin. } \varphi^6 &= \frac{3\pi}{2} - 15 \text{ col. } 2 \varphi + 6 \text{ col. } 4 \varphi - \text{col. } 6 \varphi \\ 64. \text{ sin. } \varphi^7 &= 35 \text{ sin. } \varphi - 21 \text{ sin. } 3 \varphi + 7 \text{ sin. } 5 \varphi - \text{sin. } 7 \varphi \end{aligned}$$

$$\begin{aligned} \text{tang. } \varphi &= t. \varphi \\ \text{tang. } 2 \varphi &= \frac{2 t. \varphi}{1 - t. \varphi^2} \\ \text{tang. } 3 \varphi &= \frac{3 t. \varphi - t. \varphi^3}{1 - 3 t. \varphi^2} \\ \text{tang. } 4 \varphi &= \frac{4 t. \varphi - 4 t. \varphi^3}{1 - 6 t. \varphi^2 + t. \varphi^4} \\ \text{tang. } 5 \varphi &= \frac{5 t. \varphi - 10 t. \varphi^3 + t. \varphi^5}{1 - 10 t. \varphi^2 + 5 t. \varphi^4} \\ \text{tang. } 6 \varphi &= \frac{6 t. \varphi - 20 t. \varphi^3 + 6 t. \varphi^5}{1 - 15 t. \varphi^2 + 15 t. \varphi^4 - t. \varphi^6} \\ \text{tang. } 7 \varphi &= \frac{7 t. \varphi - 35 t. \varphi^3 + 21 t. \varphi^5 - t. \varphi^7}{1 - 21 t. \varphi^2 + 35 t. \varphi^4 - 7 t. \varphi^6} \end{aligned}$$

T A B. XXI.

Triangulum rectilineum in R. rectang.

Fig. 1.

I.	$b^2 = c^2 + k^2$
II.	$k = b \cdot \sin. a = b \cdot \cos. b$
III.	$c = b \cdot \cos. a = b \cdot \sin. b$
IV.	$k = c \cdot \tan. a = c \cdot \cot. b$
V.	$c = k \cdot \tan. b = k \cdot \cot. a$

Correlata ab utraque perpendiculi parte.

Fig. 2.

$(A + B) : (a + b) = (a - b) : (A - B)$
$(A + a) : (B + b) = (B - b) : (A - a)$
A : a = cos. d : cos. D
A : a = sin. c : sin. C
B : b = tan. c : tan. C
B : b = tan. D : tan. d.

I. Latera et Angulus.

Fig. 3.

$A^2 = B^2 + C^2 - 2 BC \cos. a$
$\cos. a = (B^2 + C^2 - A^2) : 2 BC$
$B = C \cos. a + \sqrt{(A^2 - C^2 \sin. a^2)}$

$$\sin. \frac{1}{2} a^2 = (A + B - C) \cdot (A - B + C) : 4 BC$$

$$\cos. \frac{1}{2} a^2 = (A + B + C) \cdot (B + C - A) : 4 BC$$

II. Anguli et latus. Casus hic indeterminatus est.

III. Partes continuæ.

$$B = B (\cos. c + \sin. c \cot. a) = A \sin. (a + c) : \sin. a$$

$$\cot. a = (B - A \cos. c) : \sin. c$$

$$A = B : \cos. c + \sin. c \cot. a = B \sin. a : \sin. (a + c)$$

$$\tan. \frac{1}{2} c = [A \cos. a + \sqrt{(A^2 - B^2 \sin. a^2)}] : (A + B) \sin. a$$

IV. Partes oppositæ.

$$A \cdot \sin. b = B \cdot \sin. a.$$

Triang. Sphaericum in R rectangulum.

Fig. 4.

$$\begin{aligned} \text{cof. } b &= \text{cot. } a. \text{ cot. } b = \text{cof. } c. \text{ cof. } k \\ \text{cof. } a &= \text{tang. } c. \text{ cot. } b = \text{fin. } b. \text{ cof. } k \\ \text{fin. } c &= \text{tang. } k. \text{ cot. } a = \text{fin. } b. \text{ fin. } b \\ \text{cof. } b &= \text{tang. } k. \text{ cot. } b = \text{fin. } a. \text{ cof. } c \\ \text{fin. } k &= \text{tang. } c. \text{ cot. } b = \text{fin. } a. \text{ fin. } b \end{aligned}$$

Correlata ab utraque perpendiculari parte.

Fig. 5.

$$\begin{aligned} \text{cof. } A : \text{cof. } B &= \text{cof. } a : \text{cof. } b \\ \text{cof. } C : \text{fin. } D &= \text{cof. } c : \text{fin. } d \\ \text{fin. } A : \text{fin. } a &= \text{fin. } c : \text{fin. } C \\ \text{cof. } D : \text{cot. } A &= \text{cof. } d : \text{cot. } a \\ \text{fin. } B : \text{cot. } C &= \text{fin. } b : \text{cot. } c \\ \text{tang. } B : \text{tang. } D &= \text{tang. } b : \text{tang. } d \end{aligned}$$

Fig. 6.

I. Latera et Angulus.

$$\begin{aligned} \text{cof. } A &= f B. f C. \text{ cof. } a + \text{cof. } B. \text{ cof. } C. \\ \text{cof. } \frac{1}{2} a^2 &= \text{fin. } \frac{A+B+C}{2} \text{ fin. } \frac{B+C-A}{2} : f B. f C \\ \text{fin. } \frac{1}{2} a^2 &= f \frac{A+B-C}{2} f \frac{A-B+C}{2} : f B. f C \\ \text{tang. } \frac{1}{2} B &= [f C. \text{ cof. } a + \sqrt{(f A^2 - f C^2. f a^2)}] : (\text{cof. } C + \text{cof. } A) \end{aligned}$$

II. Anguli et latus.

$$\begin{aligned} \text{cof. } a &= \text{fin. } b. \text{ fin. } c. \text{ cof. } A - \text{cof. } b. \text{ cof. } c \\ \text{fin. } \frac{1}{2} A^2 &= - \text{cof. } \frac{a+b+c}{2} \text{ cof. } \frac{c+b-a}{2} : \text{fin. } b. \text{ fin. } c. \\ \text{cof. } \frac{1}{2} A^2 &= + \text{cof. } \frac{a+c-b}{2} \text{ cof. } \frac{a-c+b}{2} : \text{fin. } b. \text{ fin. } c. \\ \text{tang. } \frac{1}{2} b &= [-f c. \text{ cof. } A + \sqrt{(f a^2 - f c^2. f A^2)}] : (\text{cof. } c - \text{cof. } a) \end{aligned}$$

III. Partes continuæ.

$$\begin{aligned} \text{cot. } A &= (\text{cof. } c. \text{ cof. } B. + f c. \text{ cot. } a) : \text{fin. } B. \\ \text{cot. } a &= (f B. \text{ cot. } A - \text{cof. } c. \text{ cof. } B) : \text{fin. } c \\ \text{tang. } \frac{1}{2} B &= [- \text{cof. } A. f a + \sqrt{(f a^2 - f c^2. f A^2)}] : f A. f (a - c) \\ \text{tang. } \frac{1}{2} C &= [+ f A. \text{ cof. } a + \sqrt{(f A^2 - f B^2. f a^2)}] : f a. f (B + A). \end{aligned}$$

IV. Partes oppositæ.

$$f A. f b = f B. f a.$$

TAB. XXI.

I. Latera et Angulus.

Fig. 7. $\text{tang. } x = \text{tang. B. cof. A}$
 $\text{cof. B} : \text{cof. } x = \text{cof. } a : \text{cof. } y$
 $x + y = C$

Data	Quaesitum
A, B, <i>a</i>	C
A, B, C	<i>a</i>

II. Anguli et latus.

Fig. 8. $\text{cot. } x = \text{tang. B. cof. A}$
 $\text{cof. B} : \text{fin. } x = \text{cof. } a : \text{fin. } y$
 $x + y = C$

Data	Quaesitum
A, B, <i>a</i>	C
A, B, C	<i>a</i>

III. Partes continuae.

Fig. 9. $\text{tang. } x = \text{tang. B. cof. A}$
 $\text{cot. A} : \text{fin. } x = \text{cot. } b : \text{fin. } y$
 $x + y = C$

Data	Quaesitum
A, B, <i>b</i>	C
A, B, C	<i>b</i>

Fig. 10. $\text{cot. } x = \text{tang. B. cof. A}$
 $\text{cot. A} : \text{cof. } x = \text{cot. } b : \text{cof. } y$
 $x + y = C$

Data	Quaesitum
A, B, <i>b</i>	C
A, B, C	<i>b</i>

T A B. XXII.

Relationes cyclometricæ in fractionibus rationalibus
quam proxime definitæ.

$$\frac{\text{Periph.}}{\text{Diam.}} = \frac{3}{1}, \frac{22}{7}, \frac{333}{106}, \frac{355}{113} \text{ \&c.}$$

$$\frac{\text{area circ.}}{\text{quadr. diam.}} = \frac{3}{4}, \frac{4}{5}, \frac{7}{9}, \frac{11}{14}, \frac{172}{219}, \frac{355}{452} \text{ \&c.}$$

$$\frac{\text{Solid. Sphær.}}{\text{cubus diam.}} = \frac{1}{2}, \frac{11}{21}, \frac{111}{212}, \frac{122}{233}, \frac{233}{445}, \frac{355}{678}, \text{ \&c.}$$

$$\sqrt[3]{\left(\frac{\text{area circ.}}{\text{quadr. latus}}\right)} = \frac{8}{7}, \frac{9}{8}, \frac{35}{31}, \frac{44}{39}, \frac{123}{109}, \frac{167}{148}, \text{ \&c.}$$

$$\sqrt[3]{\left(\frac{\text{Solid. sph.}}{\text{cubi latus}}\right)} = \frac{5}{4}, \frac{31}{25}, \frac{67}{54}, \frac{567}{457}, \frac{3469}{2796}, \frac{21381}{17233} \text{ \&c.}$$

$$\frac{\text{diam. \& alt. cylindri}}{\text{latus cubi}} = \frac{12}{11}, \frac{13}{12}, \frac{168}{155}, \frac{349}{322}, \text{ \&c.}$$

$$\frac{\text{Periph.}}{\text{Diam.}} = 3 + \frac{1}{7} - \frac{1}{800} - \frac{1}{70000} - \frac{1}{5000000}$$

$$- \frac{1}{3^{\text{VIII}}} - \frac{1}{5^{\text{IX}}} - \frac{1}{5^{\text{X}}} + \frac{1}{4^{\text{XIII}}}$$

$$- \frac{1}{2^{\text{XIV}}} \text{ \&c.}$$

$$\frac{\text{Periph.}}{\text{Diam.}} = \frac{3}{1}, \frac{22}{7}, \frac{333}{106}, \frac{355}{113}, \frac{103993}{33102}, \frac{104348}{33215},$$

$$\frac{208341}{66317}, \frac{312689}{99532}, \frac{833719}{265381}, \frac{1146408}{364913},$$

$$\frac{4272943}{1300120}, \frac{5419351}{1725033}, \frac{80143857}{25510582}, \frac{165707065}{52746197},$$

$$\frac{245850922}{78256779}, \frac{411557087}{131002970},$$

T A B. XXIII.

1	.	.17453	292519	943295	769236	908
2	.	.34906	585039	886591	538473	815
3	.	.52359	877559	829887	307710	723
4	.	.69813	170079	773183	076947	631
5	.	.87266	462599	716478	846184	538
6	.	104719	755119	659774	615421	446
7	.	122173	047639	603070	384658	354
8	.	139626	340159	546366	153895	261
9	.	157079	632679	489661	923132	169
10	.	174532	925199	432957	692369	077
11	.	191986	217719	376253	461605	985
12	.	209439	510239	319549	230842	892
13	.	226892	802759	262845	000079	800
14	.	244346	095279	206140	769316	708
15	.	261799	387799	149436	538553	616
16	.	279252	680319	092732	307790	523
17	.	296705	972839	036028	077027	431
18	.	314159	265358	979323	846264	338
19	.	331612	557878	922619	615501	246
20	.	349065	850398	865915	384738	154
21	.	366519	142918	809211	153975	061
22	.	383972	435438	752506	923211	969
23	.	401425	727958	695802	692448	877
24	.	418879	020478	639098	461685	784
25	.	436332	312998	582394	230922	692
26	.	453785	605518	525690	000159	600
27	.	471238	898038	468985	769396	508
28	.	488692	190558	412281	538633	415
29	.	506145	483078	355577	307870	323
30	.	523598	775598	298873	077107	231
31	.	541052	068118	242168	846344	138
32	.	558505	360638	185464	615581	046
33	.	575958	653158	128760	384817	954
34	.	593411	945678	072056	154054	862
35	.	610865	238198	015351	923291	769
36	.	628318	530717	958647	692528	677

T A B. XXIII.

37	.	645771	823237	901943	461765	585
38	.	663225	115757	845239	231002	492
39	.	680678	408277	788535	000239	400
40	.	698131	700797	731830	769476	307
41	.	715584	993317	675126	538713	215
42	.	733038	285837	618422	307950	123
43	.	750491	578357	561718	077187	031
44	.	767944	870877	505013	846423	938
45	.	785398	163397	448309	615660	846
46	.	802851	455937	391605	384897	754
47	.	820304	748437	334901	154134	661
48	.	837758	040957	278196	923371	569
49	.	855211	333477	221492	092608	477
50	.	872664	625997	164788	461845	384
51	.	890117	918517	108084	231082	292
52	.	907571	211037	051380	000319	200
53	.	925024	503556	994675	769556	107
54	.	942477	796076	937971	538753	015
55	.	959931	088596	881267	308029	923
56	.	977384	381116	824563	077266	830
57	.	994837	673636	767858	846503	738
58	I	012290	966156	711154	615740	646
59	I	029744	258676	654450	384977	554
60	I	047197	561196	597746	154214	461
61	I	064650	843716	541041	923451	369
62	I	082104	136236	484337	692688	277
63	I	099557	428756	427633	461925	184
64	I	117010	721276	379929	231162	992
65	I	134464	013796	314225	000399	000
66	I	151917	306316	257520	769635	907
67	I	169370	598836	200816	538872	815
68	I	186823	891356	144112	208109	723
69	I	204277	183876	087208	077346	630
70	I	221730	476396	030703	846583	538
71	I	239183	768915	973999	615820	446
72	I	256637	061435	917295	385057	353

T A B. XXIII.

73	I	274090	353955	860591	154294	261
74	I	291543	646475	803886	923531	169
75	I	308996	938995	747182	692768	076
76	I	326450	231515	690478	462004	984
77	I	343903	524035	633774	231241	892
78	I	361356	816555	577070	000478	800
79	I	378810	109075	520365	769715	707
80	I	396263	401595	463661	538952	615
81	I	413716	694115	406957	308189	523
82	I	431169	986635	350253	077426	430
83	I	448623	279155	293548	846663	338
84	I	466076	571675	236844	615900	246
85	I	483529	864195	180140	385137	153
86	I	500983	156715	123436	154374	061
87	I	518436	449235	066731	923610	969
88	I	535889	741755	010027	692847	876
89	I	553343	034274	953323	462084	784
90	I	570796	326794	896619	231321	692
91	I	588249	619314	839915	000558	599
92	I	605702	911834	783210	769795	507
93	I	623156	204354	726506	539032	415
94	I	640609	496874	669802	308269	322
95	I	658062	789394	613098	077506	230
96	I	675516	081914	556393	846743	138
97	I	692969	374434	499689	615980	046
98	I	710422	666954	442985	385216	953
99	I	727875	959474	386281	154453	861
100	I	745329	251994	329576	923690	769
120	2	094395	102393	195492	308428	922
150	2	617993	877991	494365	385536	153
180	3	141592	653589	793238	462643	383
210	3	665191	429188	092111	539750	614
240	4	188790	204706	390984	616857	844
270	4	712388	980384	689857	693965	075
330	5	759386	531581	287603	848179	536
360	6	283185	307179	586476	925286	767

T A B. XXIII.

1	... 290	888208	665721	596153	948
2	... 581	776417	331443	192307	897
3	... 872	664625	997164	788461	845
4	.. 1163	552834	662886	284615	794
5	.. 1454	441043	328607	980769	742
6	.. 1745	329251	994329	576923	691
7	.. 2036	217460	660051	173077	639
8	.. 2327	105669	325772	769231	588
9	.. 2617	993877	991494	365385	536
10	.. 2908	882086	657215	961539	485
20	.. 5817	764173	314431	923078	969
30	.. 8726	646259	971647	884618	454
40	.. 11635	528346	628863	846157	938
50	.. 14544	410433	286079	807697	433
60	.. 17453	292519	943295	769236	908

LONGITUDO ARCUUM CIRCULARIUM PRO MINUTIS
SECUNDIS.

1	..... 4	848136	811095	359935	899
2	..... 9	696273	622190	719871	798
3	..... 14	544410	433286	079807	694
4	..... 19	392547	244381	439743	597
5	..... 24	240684	055476	799679	496
6	..... 29	088820	866572	159615	395
7	..... 33	936957	677667	519551	294
8	..... 38	785094	488762	879487	193
9	..... 43	633231	299858	239423	092
10	..... 48	481368	110953	599358	991
20	..... 96	962736	221907	198717	983
30	... 145	444104	332860	798070	974
40	... 193	925472	443814	397435	966
50	... 242	406840	554767	996794	957
60	... 290	888208	665721	596153	948

TAB. XXIV.

$$\varphi = (2^{\circ}. 46'. 40''). m = 10000''. m$$

φ	= 0048481	368110	9536. m
φ^2	= ... 2350	443053	9098. m^2
φ^3	= ... 113	952694	9204. m^3
φ^4	= 5	524582	5497. m^4
φ^5	= 267839		3202 m^5
φ^6	=12985		2167 m^6
φ^7	= 629		5411 m^7
φ^8	= 30		5210 m^8
φ^9	= 1		4797 m^9
φ^{10}	= ..... .....		.717 m^{10}
φ^{11}	= ..... .....		.. 35 m^{11}
φ^{12}	= ..... .....		.. 2 m^{12}

fin. φ	= 0048481	368110	953599. m
-	..... 18	992115	820072. m^2
+	..... .. 2231		994335. m^3
-	..... .....		124901. m^7
+	..... .....		..... 4. m^9

cof. φ	= 1000000	000000	000000
-	... 1175	221526	954894. m^2
+	..... 230190		939569. m^4
-	..... .. 180		350232. m^6
+	..... .....		.. 757. m^8

T A B. XXIV.

$$\pi = 3 +$$

141592	653589	793238	462643	383279
502884	197169	399375	105820	974944
592307	816406	286208	998628	034825
342117	067982	148086	513272	306647
093844	6 +			

log. $\pi = 0,497149$	872674	133854	351268
10^2 . log. $1^\circ = 0,241877$	367590	827784	547474
10^4 . log. $1' = 0,463726$	117207	184152	038707
10^6 . log. $1'' = 0,685574$	866823	540519	529940

Arc. = 1 = 57° . 17^1 . 44^{11} . 48^{111} . 22^{IV} . 29^V . 21^VI . &c.

$$\frac{1}{\pi} = 0,318309 \quad 886183 \quad 790671 \quad 53 +$$

$$\sqrt{\pi} = 1,772453,85075 \text{ \&c.}$$

$$\sqrt[3]{\frac{\pi}{6}} = 0,523598,775008,234820, \text{ \&c.}$$

$$\varphi = \frac{3 \sin. \varphi}{2 + \cos. \varphi} * - \frac{1}{60} \varphi^5 - \text{\&c.}$$

$$\varphi = \left(\frac{60 - 17 \sin. \varphi^2}{60 - 27 \sin. \varphi^2} \right) \sin. \varphi *** + \frac{61}{5000} \int \varphi^7, \text{ \&c.}$$

$$\varphi = \frac{28 \int \varphi + \sin. 2\varphi}{18 + 12 \cos. \varphi} *** + \frac{1}{2100} \varphi^7 + \text{\&c.}$$

$$\frac{1}{2} \varphi = \int \varphi - \frac{1}{2} \int 2 \varphi + \frac{1}{3} \int 3 \varphi - \frac{1}{4} \int 4 \varphi + \frac{1}{5} \int 5 \varphi \text{ \&c.}$$

$$\frac{1}{\varphi} = \cot. \varphi + \frac{1}{2} t \frac{\varphi}{2} + \frac{1}{4} t \frac{\varphi}{4} + \frac{1}{8} t \frac{\varphi}{8} + \frac{1}{16} t \frac{\varphi}{16} + \text{\&c.}$$

T A B X X V.

Gr.	1.	2.	3.	4.
1	..1745	..3490	..5236	..6981
2	..3490	..6980	..10470	..13960
3	..5234	..10467	..15701	..20934
4	..6976	..13951	..20927	..27903
5	..8716	..17431	..26147	..34862
6	..10453	..20906	..31359	..41811
7	..12187	..24374	..36561	..48748
8	..13917	..27835	..41752	..55669
9	..15643	..31287	..46930	..62574
10	..17365	..34730	..52094	..69459
11	..19081	..38162	..57243	..76324
12	..20791	..41582	..62374	..83165
13	..22495	..44990	..67485	..89980
14	..24192	..48384	..72577	..96769
15	..25882	..51764	..77646	103528
16	..27564	..55128	..82691	110255
17	..29237	..58474	..87712	116949
18	..30902	..61803	..92705	123607
19	..32557	..65114	..97670	130227
20	..34202	..68404	102606	136808
21	..35837	..71674	107510	143347
22	..37461	..74921	112382	149843
23	..39073	..78146	117219	156292
24	..40674	..81347	122021	162695
25	..42262	..84524	126785	169047
26	..43837	..87674	131511	175348
27	..45399	..90798	136197	181596
28	..46947	..93894	140841	187789
29	..48481	..96962	145443	193924
30	..50000	100000	150000	200000

TAB. XXV.

5.	6.	7.	8.	9.
. . 8726	. 10471	. 12217	. 13962	. 15707
. 17450	. 20940	. 24430	. 27920	. 31410
. 26168	. 31402	. 36635	. 41869	. 47102
. 34878	. 41854	. 48830	. 55805	. 62781
. 43578	. 52293	. 61009	. 69725	. 78440
. 52264	. 62717	. 73170	. 83623	. 94076
. 60935	. 73122	. 85309	. 97495	109682
. 69587	. 83504	. 97421	111338	125256
. 78217	. 93861	109504	125148	140791
. 86824	104189	121554	138919	156283
. 95405	114485	133566	152647	171728
103956	124747	145538	166329	187121
112476	134971	157466	179961	202456
120961	145153	169345	193538	217730
129409	155291	181173	207055	232937
137819	165382	192946	220510	248074
146186	175423	204660	233897	263135
154508	185410	216312	247214	278115
162784	195341	227898	260455	293011
171010	205212	239414	273616	307818
179184	215021	250858	286694	322531
187303	224764	262224	299685	337146
195366	234439	273512	312585	351658
203368	244042	284716	325389	366063
211309	253571	295833	338095	380356
219186	263023	306860	350697	394534
226995	272394	317793	363192	408591
234736	281683	328630	375577	422524
242405	290886	339367	387848	436329
250000	300000	350000	400000	450000

Gr.	1.	2.	3.	4.
31	. 51504	103008	154511	206015
32	. 52992	105984	158976	211968
33	. 54464	108928	163392	217856
34	. 55919	111839	167758	223677
35	. 57358	114715	172073	229431
36	. 58779	117557	176336	235114
37	. 60181	120363	180544	240726
38	. 61566	123132	184698	246265
39	. 62932	125864	188796	251728
40	. 64279	128558	192836	257115
41	. 65606	131212	196818	262424
42	. 66913	133826	200739	267652
43	. 68200	136400	204600	272799
44	. 69466	138932	208398	277863
45	. 70711	141421	212132	282843
46	. 71934	143868	215802	287736
47	. 73135	146271	219406	292541
48	. 74314	148629	222943	297258
49	. 75471	150942	226413	301884
50	. 76604	153209	229813	306418
51	. 77715	155429	233144	310858
52	. 78801	157602	236403	315204
53	. 79864	159727	239591	319454
54	. 80902	161803	242705	323607
55	. 81915	163830	245746	327661
56	. 82904	165808	248711	331615
57	. 83867	167734	251601	335468
58	. 84805	169610	254414	339219
59	. 85717	171433	257150	342867
60	. 86603	173205	259808	346410

S I N U U M.
T A B. XXV.

143

5.	6.	7.	8.	9.
257519	309023	360527	412030	463534
264960	317952	370944	423935	476927
272320	326783	381247	435711	490175
279597	335516	391435	447355	503274
286788	344146	401503	458861	516219
293893	352671	411450	470228	529007
300905	361089	421270	481452	541633
307831	369397	430963	492529	554095
314660	377592	440524	503456	566388
321394	385673	449951	514230	578509
328030	393635	459241	524847	590453
334565	401478	468391	535304	602216
340999	409199	477399	545599	613799
347329	416795	486261	555727	625193
353553	424264	494975	565685	636396
359670	431604	503538	575472	647406
365677	438812	511948	585083	658218
371572	445887	520201	594516	668830
377355	452826	528297	603768	679239
383022	459627	536231	612836	689440
388573	466288	544002	621717	699431
394005	472806	551607	630409	709210
399318	479181	559045	638908	718772
404508	485410	566312	647214	728115
409576	491491	573406	655322	737237
414519	497423	580326	663230	746134
419335	503202	587069	670936	754804
424024	508828	593634	678438	763243
428584	514300	600017	685734	771451
433013	519615	606218	692820	779423

A B A C U S
T A B. XXV.

Gr.	1.	2.	3.	4.
61	. 87462	174924	262386	349848
62	. 88295	176589	264884	353179
63	. 89101	178201	267302	356403
64	. 89879	179759	269638	359518
65	. 90631	181262	271892	362523
66	. 91355	182709	274064	365418
67	. 92050	184101	276151	368202
68	. 92718	185437	278155	370874
69	. 93358	186716	280074	373432
70	. 93969	187939	281908	375877
71	. 94552	189104	283655	378207
72	. 95106	190211	285317	380423
73	. 95630	191261	286891	382522
74	. 96126	192252	288379	384505
75	. 96593	193185	289778	386370
76	. 97030	194059	291089	388118
77	. 97437	194874	292311	389748
78	. 97815	195630	293444	391259
79	. 98163	196325	294488	392651
80	. 98481	196962	295442	393923
81	. 98769	197537	296306	395075
82	. 99027	198054	297080	396107
83	. 99255	198509	297764	397018
84	. 99452	198904	298357	397809
85	. 99619	199239	298858	398478
86	. 99756	199513	299269	399026
87	. 99863	199726	299589	399452
88	. 99939	199878	299817	399756
89	. 99985	199969	299954	399939
90	100000	200000	300000	400000

T A B. XXV.

5	6.	7.	8.	9.
437310	524772	612234	699696	787158
441473	529768	618063	706358	794652
445503	534604	623705	712805	801906
449397	539276	629156	719035	808915
453154	543785	634415	725046	815677
456773	548127	639482	730836	822191
460252	552303	644353	736404	828454
463592	556311	649029	741748	834466
466790	560148	653506	746864	840222
469846	563816	657785	751754	845723
472759	567311	661863	756415	850967
475528	570634	665740	760845	855951
478152	573783	669413	765044	860674
480631	576757	672883	769009	865136
482963	579555	676148	772741	869333
485148	582177	679207	776237	873266
487185	584622	682059	779496	876933
489074	586889	684703	782518	880333
490814	588976	687139	785302	883464
492404	590885	689365	787846	886327
493844	592613	691382	790151	888919
495134	594161	693188	792214	891241
496273	595528	694782	794037	893292
497261	596713	696165	795617	895070
498097	597717	697336	796956	896575
498782	598538	698295	798051	897808
499315	599178	699041	798904	898767
499695	599634	699574	799513	899452
499924	599909	699893	799878	899863
500000	600000	700000	800000	900000

T A B. XXVI.

Gr.	Sinus.	Tangens.	Secans.	Log. Sin.	Log. Tang.
1	174524	174551	10001523	8.2418553	8.2419215
2	348995	349208	10006095	8.5428192	8.5430838
3	523360	524078	10013723	8.7188002	8.7193958
4	697565	699268	10024419	8.8435845	8.8446437
5	871557	874887	10038198	8.9402960	8.9419518
6	1045285	1051042	10055082	9.0192346	9.0216202
7	1218693	1227846	10075099	9.0858945	9.0891438
8	1391731	1405408	10098276	9.1435553	9.1478025
9	1564345	1583844	10124651	9.1943324	9.1997125
10	1736482	1763270	10154267	9.2396702	9.2463188
11	1908090	1943803	10187168	9.2805988	9.2886523
12	2079117	2125565	10223407	9.3178789	9.3274745
13	2249511	2308682	10263039	9.3520880	9.3633641
14	2419219	2493280	10301635	9.3836752	9.3967711
15	2588190	2679492	10352762	9.4129962	9.4280525
16	2756374	2867454	10402994	9.4403381	9.4574964
17	2923717	3057307	10456918	9.4659353	9.4853390
18	3090170	3249197	10514622	9.4899824	9.5117760
19	3255682	3443276	10576207	9.5126419	9.5369718
20	3420202	3639702	10641778	9.5340517	9.5610658
21	3583679	3838640	10711450	9.5543292	9.5841774
22	3745066	4040262	10785347	9.5735754	9.6064096
23	3907311	4244749	10863604	9.5918780	9.6278519
24	4067366	4452287	10946363	9.6093133	9.6485831
25	4226183	4663077	11033779	9.6259483	9.6686725
26	4383712	4877326	11126019	9.6418420	9.6881818
27	4539905	5095254	11223262	9.6570468	9.7071659
28	4694716	5317094	11325701	9.6716093	9.7256744
29	4848096	5543090	11433541	9.6855712	9.7437520
30	5000000	5773503	11547005	9.6989700	9.7614394

TAB. XXVI.

Gr.	Sinus.	Tangens.	Secans.	Log. Sin.	Log. Tang.
31	5150381	6008606	11666334	9.7118393	9.7787737
32	5299193	6248694	11791784	9.7242097	9.7957892
33	5446390	6494076	11923633	9.7361088	9.8125174
34	5591929	6745085	12062180	9.7475617	9.8289874
35	5735764	7002075	12207746	9.7585913	9.8452268
36	5877853	7265426	12360680	9.7692187	9.8612610
37	6018150	7535540	12521357	9.7794630	9.8771144
38	6156615	7812856	12690182	9.7893420	9.8928098
39	6293204	8097840	12867596	9.7988718	9.9083692
40	6427876	8390996	13054073	9.8080675	9.9238135
41	6560590	8692868	13250130	9.8169429	9.9391631
42	6691306	9004041	13456327	9.8255109	9.9544374
43	6819984	9325151	13673275	9.8337833	9.9696559
44	6946584	9656888	13901636	9.8417713	9.9848372
45	7071068	10000000	14142136	9.8494850	10.0000000
46	7193398	10355303	14395565	9.8569341	10.0151628
47	7313537	10723687	14662792	9.8641275	10.0303441
48	7431448	11106125	14944765	9.8710735	10.0455626
49	7547096	11503684	15242531	9.8777799	10.0608369
50	7660444	11917536	15557238	9.8842540	10.0761865
51	7771460	12348972	15890157	9.8905026	10.0916308
52	7880107	12799416	16242692	9.8965321	10.1071602
53	7986355	13270448	16616401	9.9023486	10.1228856
54	8090170	13763819	17013016	9.9079576	10.1387390
55	8191521	14281480	17434468	9.9133645	10.1547732
56	8290376	14825610	17882916	9.9185742	10.1710126
57	8386706	15398650	18360784	9.9235914	10.1874826
58	8480481	16003345	18870799	9.9284205	10.2042108
59	8571673	16642795	19416040	9.9330656	10.2212263
60	8660254	17320508	20000000	9.9375306	10.2385606

TAB. XXVI.

Gr.	Sinus.	Tangens.	Secans.	Log. Sin.	Log. Tang.
61	8746197	18040478	20626653	9.9418193	10.2562480
62	8829470	18807265	21300545	9.9459349	10.2743256
63	8910065	19626105	22026893	9.9498809	10.2928341
64	8987940	20503038	22811720	9.9536602	10.3118182
65	9063078	21445069	23662016	9.9572757	10.3313275
66	9135454	22460368	24585933	9.9607302	10.3514169
67	9205049	23558524	25593047	9.9640261	10.3721481
68	9271839	24750869	26694672	9.9671659	10.3935903
69	9335804	26050891	27904281	9.9701517	10.4158226
70	9396926	27474774	29238044	9.9729858	10.4389341
71	9455185	29042109	30715535	9.9756701	10.4630281
72	9510565	30776835	32360680	9.9782063	10.4882240
73	9563048	32708526	34203036	9.9805963	10.5146610
74	9612617	34874144	36279553	9.9828416	10.5425036
75	9659258	37320508	38637033	9.9849438	10.5719475
76	9702957	40107809	41335655	9.9869041	10.6032289
77	9743701	43314759	44454115	9.9887239	10.6366359
78	9781476	47046301	48097343	9.9904044	10.6725255
79	9816271	51445540	52408431	9.9919466	10.7113477
80	9848077	56712818	57587705	9.9933515	10.7536812
81	9876883	63137515	63924532	9.9946199	10.8002875
82	9902680	71153697	71852965	9.9957528	10.8521975
83	9925462	81443464	82055090	9.9967507	10.9108562
84	9945218	95143645	95667722	9.9976143	10.9783798
85	9961947	114300523	114737432	9.9983442	11.0580482
86	9975640	143006663	143355870	9.9989408	11.1553563
87	9986295	190811367	191073226	9.9994044	11.2809042
88	9993908	286362533	286537083	9.9997354	11.4569162
89	9998477	572899617	572986885	9.9999338	11.7580785
90	10000000	infin.	infin.	10.0000000	infin.

T A B. XXVII.

$$0 = x^n + a x^{n-1} + b x^{n-2} + c x^{n-3} + \&c.$$

$$x' = \frac{(n-1)y^n + a(n-2)y^{n-1} + b(n-3)y^{n-2} + \&c.}{n y^{n-1} + a(n-1)y^{n-2} + b(n-2)y^{n-3} + \&c.}$$

$$0 = x^2 + a x + b$$

$$x' = \frac{y^2 - b}{2y + a}$$

$$0 = x^3 + a x^2 + b x + c$$

$$x' = \frac{2y^3 + a y^2 - c}{3y^2 + 2ay + b}$$

$$0 = x^4 + a x^3 + b x^2 + c x + d$$

$$x' = \frac{3y^4 + 2a y^3 + b y^2 - d}{4y^3 + 3a y^2 + b y + c}$$

$$0 = x^5 + a x^4 + b x^3 + c x^2 + d x + e$$

$$x' = \frac{4y^5 + 3a y^4 + 2b y^3 + c y^2 - e}{5y^4 + 4a y^3 + 3b y^2 + 2c y + d}$$

$$0 = x^n - a x^{n-1} + b x^{n-2} \dots \dots \dots + k x^2 + l x + m$$

$$x \dots \dots m^{1:n}$$

$$\dots \dots \left(\frac{1}{n}\right)^{1:(n-1)}$$

$$\dots \dots \left(\frac{2k}{n(n-1)}\right)^{1:n-2}$$

&c.

$$\dots \dots \left(\frac{2b}{n(n-1)}\right)^{1:2}$$

$$\dots \dots \left(\frac{a}{n}\right)$$

$$x - x^3 = a$$

Utraque radix minor positiva, major negativa.

$$x^3 - x = a$$

Utraque radix minor negativa, major positiva.

Exemplum.

$$z = 2 \text{ fin. } 10^\circ$$

$$z^3 = 3z - 1$$

$$z = x \sqrt{3}$$

$$x - x^3 = 0,1924501 = a.$$

x	a	diff. I.	diff. II.
0,200	0.1920000	Δ	$\Delta \Delta$
0,201	0.1928794	0,0008794	
0,202	0.1937576	0,0008782	- 0,0000012

$$1920000 + (\Delta - \frac{1}{2} \Delta \Delta) n - \frac{1}{2} \Delta \Delta \cdot n^2 = 1924501$$

$$1920000 + 8800 n - 6 n^2 = 1924501$$

$$n = \frac{4501}{8800 - 6n} = 5118$$

$$x = 0,2005118$$

x	a	diff. I.	diff. II.
0.885	0.1918459	Δ	$\Delta \Delta$
0.884	0.1931929	+ 13470	
0.883	0.1945346	+ 13417	- 43

$$1918459 + 13491 \frac{1}{2} n - 21 \frac{1}{2} n n - 1924501$$

$$n = \frac{6042}{13491,5 - 21,5 n} = 4477$$

$$x = 0,8850000 - 0,0004477 = 0,8845523.$$

x	a	diff. I.	diff. II.
1.085	0.1922891	Δ	$\Delta \Delta$
1.086	0.1948241	+ 25350	
1.087	0.1973655	+ 25414	+ 64.

$$n = \frac{1610}{25318 + 32 n} = 0,0626$$

$$- x = 1,0850636.$$

T A B. XXIX.

x	a	x	a	x	a
0.000	0.0000000	0.035	0.0349571	0.070	0.0696570
0.001	0.0010000	0.036	0.0359553	0.071	0.0706421
0.002	0.0020000	0.037	0.0369493	0.072	0.0716268
0.003	0.0030000	0.038	0.0379452	0.073	0.0726110
0.004	0.0039999	0.039	0.0389407	0.074	0.0735948
0.005	0.0049999	0.040	0.0399360	0.075	0.0745781
0.006	0.0059998	0.041	0.0409311	0.076	0.0755610
0.007	0.0069997	0.042	0.0419259	0.077	0.0765435
0.008	0.0079995	0.043	0.0429205	0.078	0.0775254
0.009	0.0089993	0.044	0.0439148	0.079	0.0785070
0.010	0.0099990	0.045	0.0449089	0.080	0.0794880
0.011	0.0109987	0.046	0.0459027	0.081	0.0804686
0.012	0.0119983	0.047	0.0468962	0.082	0.0814486
0.013	0.0129978	0.048	0.0478894	0.083	0.0824282
0.014	0.0139973	0.049	0.0488823	0.084	0.0834073
0.015	0.0149966	0.050	0.0498750	0.085	0.0843859
0.016	0.0159959	0.051	0.0508673	0.086	0.0853639
0.017	0.0169951	0.052	0.0518594	0.087	0.0863414
0.018	0.0179942	0.053	0.0528511	0.088	0.0873185
0.019	0.0189931	0.054	0.0538425	0.089	0.0882950
0.020	0.0199920	0.055	0.0548336	0.090	0.0892710
0.021	0.0209907	0.056	0.0558244	0.091	0.0902464
0.022	0.0219894	0.057	0.0568148	0.092	0.0912213
0.023	0.0229878	0.058	0.0578049	0.093	0.0921956
0.024	0.0239862	0.059	0.0587946	0.094	0.0931694
0.025	0.0249844	0.060	0.0597840	0.095	0.0941426
0.026	0.0259824	0.061	0.0607730	0.096	0.0951152
0.027	0.0269803	0.062	0.0617617	0.097	0.0960873
0.028	0.0279780	0.063	0.0627500	0.098	0.0970588
0.029	0.0289756	0.064	0.0637379	0.099	0.0980297
0.030	0.0299730	0.065	0.0647254	0.100	0.0990000
0.031	0.0309702	0.066	0.0657125	0.101	0.0999697
0.032	0.0319672	0.067	0.0666992	0.102	0.1009388
0.033	0.0329641	0.068	0.0676856	0.103	0.1019073
0.034	0.0339607	0.069	0.0686715	0.104	0.1028751
0.035	0.0349571	0.070	0.0696570	0.105	0.1038424

x	a	x	a	x	a
0.105	0.1038424	0.140	0.1372560	0.175	0.1696406
0.106	0.1048090	0.141	0.1381968	0.176	0.1705482
0.107	0.1057750	0.142	0.1391367	0.177	0.1714548
0.108	0.1067403	0.143	0.1400758	0.178	0.1723602
0.109	0.1077050	0.144	0.1410140	0.179	0.1732647
0.110	0.1086690	0.145	0.1419513	0.180	0.1741680
0.111	0.1096324	0.146	0.1428879	0.181	0.1750703
0.112	0.1105951	0.147	0.1438235	0.182	0.1759714
0.113	0.1115571	0.148	0.1447582	0.183	0.1768715
0.114	0.1125185	0.149	0.1456921	0.184	0.1777705
0.115	0.1134791	0.150	0.1466250	0.185	0.1786684
0.116	0.1144391	0.151	0.1475570	0.186	0.1795651
0.117	0.1153984	0.152	0.1484882	0.187	0.1804608
0.118	0.1163570	0.153	0.1494184	0.188	0.1813553
0.119	0.1173148	0.154	0.1503477	0.189	0.1822487
0.120	0.1182720	0.155	0.1512761	0.190	0.1831410
0.121	0.1192284	0.156	0.1522036	0.191	0.1840321
0.122	0.1201842	0.157	0.1531301	0.192	0.1849221
0.123	0.1211391	0.158	0.1540557	0.193	0.1858109
0.124	0.1220934	0.159	0.1549803	0.194	0.1866986
0.125	0.1230469	0.160	0.1559040	0.195	0.1875851
0.126	0.1239996	0.161	0.1568267	0.196	0.1884705
0.127	0.1249516	0.162	0.1577485	0.197	0.1893546
0.128	0.1259028	0.163	0.1586693	0.198	0.1902376
0.129	0.1268533	0.164	0.1595891	0.199	0.1911194
0.130	0.1278030	0.165	0.1605078	0.200	0.1920000
0.131	0.1287519	0.166	0.1614257	0.201	0.1928794
0.132	0.1297000	0.167	0.1623425	0.202	0.1937576
0.133	0.1206474	0.168	0.1632584	0.203	0.1946346
0.134	0.1315939	0.169	0.1641732	0.204	0.1955103
0.135	0.1325396	0.170	0.1650870	0.205	0.1963849
0.136	0.1334845	0.171	0.1659998	0.206	0.1972581
0.137	0.1344286	0.172	0.1669116	0.207	0.1981303
0.138	0.1353719	0.173	0.1678223	0.208	0.1990011
0.139	0.1363144	0.174	0.1687314	0.209	0.1998707
0.140	0.1372560	0.175	0.1696406	0.210	0.2007390

T A B. XXIX.

x	a	x	a	x	a
0.210	0.2007390	0.245	0.2302939	0.280	0.2580480
0.211	0.2016061	0.246	0.2311131	0.281	0.2588120
0.212	0.2024719	0.247	0.2319308	0.282	0.2595742
0.213	0.2033364	0.248	0.2327470	0.283	0.2603348
0.214	0.2041997	0.249	0.2335618	0.284	0.2610937
0.215	0.2050616	0.250	0.2343750	0.285	0.2618509
0.216	0.2059223	0.251	0.2351867	0.286	0.2626063
0.217	0.2067816	0.252	0.2359970	0.287	0.2633601
0.218	0.2076398	0.253	0.2368057	0.288	0.2641121
0.219	0.2084965	0.254	0.2376129	0.289	0.2648624
0.220	0.2093520	0.255	0.2384186	0.290	0.2656110
0.221	0.2102061	0.256	0.2392228	0.291	0.2663578
0.222	0.2110590	0.257	0.2400254	0.292	0.2671029
0.223	0.2119104	0.258	0.2408265	0.293	0.2678462
0.224	0.2127606	0.259	0.2416260	0.294	0.2685878
0.225	0.2136094	0.260	0.2424240	0.295	0.2693276
0.226	0.2144568	0.261	0.2432204	0.296	0.2700657
0.227	0.2153020	0.262	0.2440153	0.297	0.2708019
0.228	0.2161476	0.263	0.2448086	0.298	0.2715364
0.229	0.2169919	0.264	0.2456003	0.299	0.2722601
0.230	0.2178330	0.265	0.2463904	0.300	0.2730000
0.231	0.2186736	0.266	0.2471789	0.301	0.2737291
0.232	0.2195128	0.267	0.2479658	0.302	0.2744564
0.233	0.2203507	0.268	0.2487512	0.303	0.2751819
0.234	0.2211871	0.269	0.2495349	0.304	0.2759055
0.235	0.2220221	0.270	0.2503170	0.305	0.2766274
0.236	0.2228557	0.271	0.2510975	0.306	0.2773474
0.237	0.2236879	0.272	0.2518764	0.307	0.2780666
0.238	0.2245187	0.273	0.2526536	0.308	0.2787819
0.239	0.2253481	0.274	0.2534292	0.309	0.2794964
0.240	0.2261760	0.275	0.2542031	0.310	0.2802090
0.241	0.2270025	0.276	0.2549754	0.311	0.2809198
0.242	0.2278275	0.277	0.2557461	0.312	0.2816287
0.243	0.2286511	0.278	0.2565150	0.313	0.2823357
0.244	0.2294732	0.279	0.2572824	0.314	0.2830409
0.245	0.2302939	0.280	0.2580480	0.315	0.2837441

x	a	x	a	x	a
0.315	0.2837441	0.350	0.3071250	0.385	0.3279334
0.316	0.2844455	0.351	0.3077564	0.386	0.3284875
0.317	0.2851450	0.352	0.3083858	0.387	0.3290394
0.318	0.2858426	0.353	0.3090130	0.388	0.3295889
0.319	0.2865382	0.354	0.3096381	0.389	0.3301361
0.320	0.2872320	0.355	0.3102611	0.390	0.3306810
0.321	0.2879238	0.356	0.3108820	0.391	0.3312235
0.322	0.2886138	0.357	0.3115007	0.392	0.3317637
0.323	0.2893017	0.358	0.3121173	0.393	0.3323015
0.324	0.2899878	0.359	0.3127317	0.394	0.3328370
0.325	0.2906719	0.360	0.3133440	0.395	0.3333701
0.326	0.2913540	0.361	0.3139541	0.396	0.3339009
0.327	0.2920340	0.362	0.3145620	0.397	0.3344292
0.328	0.2927124	0.363	0.3151679	0.398	0.3349552
0.329	0.2933887	0.364	0.3157715	0.399	0.3354788
0.330	0.2940630	0.365	0.3163728	0.400	0.3360000
0.331	0.2947353	0.366	0.3169721	0.401	0.3365188
0.332	0.2954056	0.367	0.3175691	0.402	0.3370352
0.333	0.2960740	0.368	0.3181640	0.403	0.3375492
0.334	0.2967403	0.369	0.3187566	0.404	0.3380607
0.335	0.2974046	0.370	0.3193470	0.405	0.3385699
0.336	0.2980669	0.371	0.3199352	0.406	0.3390766
0.337	0.2987273	0.372	0.3205212	0.407	0.3395809
0.338	0.2993855	0.373	0.3211049	0.408	0.3400827
0.339	0.3000418	0.374	0.3216864	0.409	0.3405821
0.340	0.3006960	0.375	0.3222656	0.410	0.3410790
0.341	0.3013482	0.376	0.3228426	0.411	0.3415735
0.342	0.3019983	0.377	0.3234174	0.412	0.3420655
0.343	0.3026464	0.378	0.3239898	0.413	0.3425550
0.344	0.3032924	0.379	0.3245601	0.414	0.3430421
0.345	0.3039364	0.380	0.3251280	0.415	0.3435266
0.346	0.3045783	0.381	0.3256937	0.416	0.3440087
0.347	0.3052180	0.382	0.3262570	0.417	0.3444883
0.348	0.3058558	0.383	0.3268181	0.418	0.3449654
0.349	0.3064915	0.384	0.3273769	0.419	0.3454399
0.350	0.3071250	0.385	0.3279334	0.420	0.3459120

T A B. XXIX.

x	a	x	a	x	a
0.420	0.3459120	0.455	0.3608036	0.490	0.3723510
0.421	0.3463815	0.456	0.3611812	0.491	0.3726292
0.422	0.3468485	0.457	0.3615560	0.492	0.3729049
0.423	0.3473130	0.458	0.3619281	0.493	0.3731768
0.424	0.3477750	0.459	0.3622974	0.494	0.3734462
0.425	0.3482344	0.460	0.3626640	0.495	0.3737126
0.426	0.3486912	0.461	0.3630278	0.496	0.3739760
0.427	0.3491455	0.462	0.3633889	0.497	0.3742365
0.428	0.3495972	0.463	0.3637472	0.498	0.3744940
0.429	0.3500464	0.464	0.3641027	0.499	0.3747485
0.430	0.3504930	0.465	0.3644554	0.500	0.3750000
0.431	0.3509370	0.466	0.3648053	0.501	0.3752485
0.432	0.3513784	0.467	0.3651584	0.502	0.3754940
0.433	0.3518173	0.468	0.3654968	0.503	0.3757365
0.434	0.3522535	0.469	0.3658383	0.504	0.3759759
0.435	0.3526871	0.470	0.3661770	0.505	C.3762124
0.436	0.3531181	0.471	0.3665129	0.506	0.3764458
0.437	0.3535465	0.472	0.3668460	0.507	0.3766762
0.438	0.3539723	0.473	0.3671741	0.508	0.3769035
0.439	0.3543955	0.474	0.3675036	0.509	0.3771278
0.440	0.3548160	0.475	0.3678281	0.510	0.3773490
0.441	0.3552339	0.476	0.3681498	0.511	0.3775672
0.442	0.3556491	0.477	0.3684687	0.512	0.3777823
0.443	0.3560617	0.478	0.3687846	0.513	0.3779943
0.444	0.3564716	0.479	0.3690978	0.514	0.3782033
0.445	0.3568789	0.480	0.3694080	0.515	0.3784091
0.446	0.3572835	0.481	0.3697154	0.516	0.3786119
0.447	0.3576854	0.482	0.3700198	0.517	0.3788115
0.448	0.3580846	0.483	0.3703214	0.518	0.3790081
0.449	0.3584811	0.484	0.3706201	0.519	0.3792016
0.450	0.3588750	0.485	0.3709159	0.520	0.3793920
0.451	0.3592661	0.486	0.3712087	0.521	0.3795792
0.452	0.3596546	0.487	0.3714987	0.522	0.3797634
0.453	0.3600603	0.488	0.3717857	0.523	0.3799443
0.454	0.3604233	0.489	0.3720698	0.524	0.3801222
0.455	0.3608036	0.490	0.3723510	0.525	0.3802969

x	a	x	a	x	a
0.525	0.3802969	0.560	0.3843840	0.595	0.3843551
0.526	0.3804684	0.561	0.3844415	0.596	0.3842913
0.527	0.3806368	0.562	0.3844957	0.597	0.3842238
0.528	0.3808020	0.563	0.3845465	0.598	0.3841528
0.529	0.3809641	0.564	0.3845938	0.599	0.3840782
0.530	0.3811230	0.565	0.3846379	0.600	0.3840000
0.531	0.3812787	0.566	0.3846785	0.601	0.3839182
0.532	0.3814312	0.567	0.3847157	0.602	0.3838328
0.533	0.3815805	0.568	0.3847496	0.603	0.3837438
0.534	0.3817267	0.569	0.3847800	0.604	0.3836511
0.535	0.3818696	0.570	0.3848070	0.605	0.3835549
0.536	0.3820093	0.571	0.3848306	0.606	0.3834550
0.537	0.3821458	0.572	0.3848508	0.607	0.3833515
0.538	0.3822791	0.573	0.3848675	0.608	0.3832443
0.539	0.3824092	0.574	0.3848808	0.609	0.3831335
0.540	0.3825360	0.575	0.3848906	0.610	0.3830190
0.541	0.3826596	0.576	0.3848970	0.611	0.3829009
0.542	0.3827799	0.577	0.3849000	0.612	0.3827791
0.543	0.3828970	0.578	0.3848994	0.613	0.3826536
0.544	0.3830108	0.579	0.3848955	0.614	0.3825245
0.545	0.3831214	0.580	0.3848880	0.615	0.3823916
0.546	0.3832287	0.581	0.3848771	0.616	0.3822551
0.547	0.3833327	0.582	0.3848626	0.617	0.3821149
0.548	0.3834334	0.583	0.3848447	0.618	0.3819710
0.549	0.3835309	0.584	0.3848233	0.619	0.3818233
0.550	0.3836250	0.585	0.3847984	0.620	0.3816720
0.551	0.3837158	0.586	0.3847699	0.621	0.3815149
0.552	0.3838034	0.587	0.3847380	0.622	0.3813582
0.553	0.3838876	0.588	0.3847025	0.623	0.3811956
0.554	0.3839685	0.589	0.3846635	0.624	0.3810294
0.555	0.3840461	0.590	0.3846210	0.625	0.3808594
0.556	0.3841204	0.591	0.3845749	0.626	0.3806856
0.557	0.3841913	0.592	0.3845253	0.627	0.3805081
0.558	0.3842589	0.593	0.3844721	0.628	0.3803268
0.559	0.3843231	0.594	0.3844154	0.629	0.3801418
0.560	0.3843840	0.595	0.3843551	0.630	0.3799530

TAB. XXIX.

x	a	x	a	x	a
0.630	0.3799530	0.665	0.3709204	0.700	0.3570000
0.631	0.3797604	0.666	0.3705917	0.701	0.3565279
0.632	0.3795640	0.667	0.3702590	0.702	0.3560516
0.633	0.3793639	0.668	0.3699224	0.703	0.3555711
0.634	0.3791599	0.669	0.3695817	0.704	0.3550863
0.635	0.3789521	0.670	0.3692370	0.705	0.3545974
0.636	0.3787405	0.671	0.3688883	0.706	0.3541042
0.637	0.3785251	0.672	0.3685355	0.707	0.3536068
0.638	0.3783050	0.673	0.3681788	0.708	0.3531051
0.639	0.3780820	0.674	0.3678180	0.709	0.3525992
0.640	0.3778560	0.675	0.3674531	0.710	0.3520890
0.641	0.3776253	0.676	0.3670842	0.711	0.3515746
0.642	0.3773907	0.677	0.3667113	0.712	0.3510559
0.643	0.3771523	0.678	0.3663342	0.713	0.3505329
0.644	0.3769100	0.679	0.3659531	0.714	0.3500058
0.645	0.3766639	0.680	0.3655580	0.715	0.3494741
0.646	0.3764139	0.681	0.3651788	0.716	0.3489383
0.647	0.3761600	0.682	0.3647854	0.717	0.3483982
0.648	0.3759022	0.683	0.3643880	0.718	0.3478538
0.649	0.3756405	0.684	0.3639865	0.719	0.3473050
0.650	0.3753750	0.685	0.3635809	0.720	0.3467520
0.651	0.3751055	0.686	0.3631711	0.721	0.3461946
0.652	0.3748322	0.687	0.3627573	0.722	0.3456330
0.653	0.3745549	0.688	0.3623393	0.723	0.3450669
0.654	0.3742737	0.689	0.3619172	0.724	0.3444966
0.655	0.3739886	0.690	0.3614910	0.725	0.3439219
0.656	0.3736996	0.691	0.3610606	0.726	0.3433428
0.657	0.3734066	0.692	0.3606261	0.727	0.3427594
0.658	0.3731097	0.693	0.3601874	0.728	0.3421716
0.659	0.3728088	0.694	0.3597446	0.729	0.3415795
0.660	0.3725040	0.695	0.3592976	0.730	0.3409830
0.661	0.3721952	0.696	0.3588465	0.731	0.3403821
0.662	0.3718825	0.697	0.3583911	0.732	0.3397768
0.663	0.3715657	0.698	0.3579316	0.733	0.3391672
0.664	0.3712450	0.699	0.3574679	0.734	0.3385531
0.665	0.3709204	0.700	0.3570000	0.735	0.3379346

TAB. XXIX.

x	a	x	a	x	a
0.735	0.3379346	0.770	0.3134670	0.805	0.2833399
0.736	0.3373117	0.771	0.3126866	0.806	0.2823934
0.737	0.3366844	0.772	0.3119003	0.807	0.2814421
0.738	0.3360527	0.773	0.3111101	0.808	0.2804859
0.739	0.3354165	0.774	0.3103152	0.809	0.2795249
0.740	0.3347760	0.775	0.3095156	0.810	0.2785590
0.741	0.3341310	0.776	0.3087114	0.811	0.2775883
0.742	0.3334815	0.777	0.3079026	0.812	0.2766127
0.743	0.3328276	0.778	0.3070890	0.813	0.2756322
0.744	0.3321692	0.779	0.3062709	0.814	0.2746469
0.745	0.3315064	0.780	0.3054480	0.815	0.2736566
0.746	0.3307391	0.781	0.3046205	0.816	0.2726615
0.747	0.3301673	0.782	0.3037882	0.817	0.2716615
0.748	0.3294910	0.783	0.3029513	0.818	0.2706566
0.749	0.3288103	0.784	0.3021097	0.819	0.2696467
0.750	0.3281250	0.785	0.3012634	0.820	0.2686320
0.751	0.3274352	0.786	0.3004123	0.821	0.2676123
0.752	0.3267410	0.787	0.2995566	0.822	0.2665878
0.753	0.3260422	0.788	0.2986961	0.823	0.2655582
0.754	0.3253389	0.789	0.2978309	0.824	0.2645238
0.755	0.3246311	0.790	0.2969610	0.825	0.2634844
0.756	0.3239188	0.791	0.2960863	0.826	0.2624400
0.757	0.3232019	0.792	0.2952069	0.827	0.2613907
0.758	0.3224805	0.793	0.2943227	0.828	0.2603364
0.759	0.3217545	0.794	0.2934338	0.829	0.2592772
0.760	0.3210240	0.795	0.2925401	0.830	0.2582130
0.761	0.3202889	0.796	0.2916417	0.831	0.2571438
0.762	0.3195493	0.797	0.2907384	0.832	0.2560696
0.763	0.3188051	0.798	0.2898304	0.833	0.2549904
0.764	0.3180563	0.799	0.2889176	0.834	0.2539063
0.765	0.3173029	0.800	0.2880000	0.835	0.2528171
0.766	0.3165449	0.801	0.2870776	0.836	0.2517229
0.767	0.3157823	0.802	0.2861504	0.837	0.2506237
0.768	0.3150151	0.803	0.2852184	0.838	0.2495195
0.769	0.3142434	0.804	0.2842815	0.839	0.2484103
0.770	0.3134670	0.805	0.2833399	0.840	0.2472960

T A B. XXIX.

x	a	x	a	x	a
0.840	0.2472960	0.875	0.2050781	0.910	0.1564290
0.841	0.2461767	0.876	0.2037786	0.911	0.1549420
0.842	0.2450523	0.877	0.2024739	0.912	0.1534495
0.843	0.2439229	0.878	0.20116385	0.913	0.1519515
0.844	0.2427884	0.879	0.1998486	0.914	0.1504481
0.845	0.2416489	0.880	0.1985280	0.915	0.1489391
0.846	0.2405043	0.881	0.1972022	0.916	0.1474247
0.847	0.2393546	0.882	0.1958710	0.917	0.1459048
0.848	0.2381998	0.883	0.1945346	0.918	0.1443794
0.849	0.2370400	0.884	0.1931929	0.919	0.1428484
0.850	0.2358750	0.885	0.1918459	0.920	0.1413120
0.851	0.2347049	0.886	0.1904935	0.921	0.1397700
0.852	0.2335298	0.887	0.1891359	0.922	0.1382226
0.853	0.2323495	0.888	0.1877729	0.923	0.1366695
0.854	0.2311641	0.889	0.1864046	0.924	0.1351110
0.855	0.2299736	0.890	0.1850310	0.925	0.1335469
0.856	0.2287780	0.891	0.1836520	0.926	0.1319772
0.857	0.2275772	0.892	0.1822677	0.927	0.1304020
0.858	0.2263713	0.893	0.1808780	0.928	0.1288212
0.859	0.2251602	0.894	0.1794830	0.929	0.1272349
0.860	0.2239440	0.895	0.1780826	0.930	0.1256430
0.861	0.2227226	0.896	0.1766769	0.931	0.1240455
0.862	0.2214961	0.897	0.1752657	0.932	0.1224424
0.863	0.2202644	0.898	0.1738492	0.933	0.1208338
0.864	0.2190275	0.899	0.1724273	0.934	0.1192195
0.865	0.2177854	0.900	0.1710000	0.935	0.1175996
0.866	0.2165381	0.901	0.1695673	0.936	0.1159741
0.867	0.2152856	0.902	0.1681292	0.937	0.1143430
0.868	0.2140280	0.903	0.1666857	0.938	0.1127063
0.869	0.2127651	0.904	0.1652367	0.939	0.1110640
0.870	0.2114970	0.905	0.1637824	0.940	0.1094160
0.871	0.2102237	0.906	0.1623226	0.941	0.1077624
0.872	0.2089452	0.907	0.1608574	0.942	0.1061031
0.873	0.2076614	0.908	0.1593867	0.943	0.1044382
0.874	0.2063724	0.909	0.1579106	0.944	0.1027676
0.875	0.2050781	0.910	0.1564290	0.945	0.1010914

T A B. XXIX.

x	a	x	a	x	a
0.945	0.10109:4	0.980	0.0388080	1.015	0.0306784
0.946	0.0994095	0.981	0.0369239	1.016	0.0327721
0.947	0.0977219	0.982	0.0350338	1.017	0.0348719
0.948	0.0960286	0.983	0.0331379	1.018	0.0369778
0.949	0.0943297	0.984	0.0312361	1.019	0.0390899
0.950	0.0926250	0.985	0.0293284	1.020	0.0412080
0.951	0.0909146	0.986	0.0274147	1.021	0.0433323
0.952	0.0891986	0.987	0.0254952	1.022	0.0454626
0.953	0.0874768	0.988	0.0235697	1.023	0.0475992
0.954	0.0857493	0.989	0.0216383	1.024	0.0497418
0.955	0.0840161	0.990	0.0197010	1.025	0.0518906
0.956	0.0822772	0.991	0.0177577	1.026	0.0540456
0.957	0.0805325	0.992	0.0158085	1.027	0.0562067
0.958	0.0787821	0.993	0.0138533	1.028	0.0583740
0.959	0.0770259	0.994	0.0118922	1.029	0.0605474
0.960	0.0752640	0.995	0.0099251	1.030	0.0627270
0.961	0.0734963	0.996	0.0079520	1.031	0.0649128
0.962	0.0717229	0.997	0.0059730	1.032	0.0671048
0.963	0.0699437	0.998	0.0039880	1.033	0.0693029
0.964	0.0681587	0.999	0.0019970	1.034	0.0715073
0.965	0.0663679	1.000	0.0000000	1.035	0.0737179
0.966	0.0645713	1.001	0.0020030	1.036	0.0759347
0.967	0.0627689	1.002	0.0040120	1.037	0.0781577
0.968	0.0609608	1.003	0.0060270	1.038	0.0803869
0.969	0.0591468	1.004	0.0080481	1.039	0.0826223
0.970	0.0573270	1.005	0.0100751	1.040	0.0848640
0.971	0.0555084	1.006	0.0121082	1.041	0.0871119
0.972	0.0536700	1.007	0.0141473	1.042	0.0893661
0.973	0.0518327	1.008	0.0161925	1.043	0.0916265
0.974	0.0499896	1.009	0.0182437	1.044	0.0938932
0.975	0.0481406	1.010	0.0203010	1.045	0.0961661
0.976	0.0462858	1.011	0.0223643	1.046	0.0984453
0.977	0.0444252	1.012	0.0244337	1.047	0.1007308
0.978	0.0425586	1.013	0.0265092	1.048	0.1030226
0.979	0.0406863	1.014	0.0285907	1.049	0.1053206
0.980	0.0388080	1.015	0.0306784	1.050	0.1076250

T A B. XXIX.

x	a	x	a	x	a
1.050	0.1076250	1.085	0.1922891	1.120	0.2849280
1.051	0.1099357	1.086	0.1948241	1.121	0.2876946
1.052	0.1122526	1.087	0.1973655	1.122	0.2904678
1.053	0.1145759	1.088	0.1999135	1.123	0.2932479
1.054	0.1169055	1.089	0.2024680	1.124	0.2960346
1.055	0.1192414	1.090	0.2050290	1.125	0.2988281
1.056	0.1215836	1.091	0.2075966	1.126	0.3016284
1.057	0.1239322	1.092	0.2101707	1.127	0.3044354
1.058	0.1262871	1.093	0.2127514	1.128	0.3072492
1.059	0.1286484	1.094	0.2153386	1.129	0.3100657
1.060	0.1310160	1.095	0.2179324	1.130	0.3128970
1.061	0.1333900	1.096	0.2205327	1.131	0.3157311
1.062	0.1357703	1.097	0.2231397	1.132	0.3185720
1.063	0.1381570	1.098	0.2257532	1.133	0.3214196
1.064	0.1405501	1.099	0.2283733	1.134	0.3242741
1.065	0.1429496	1.100	0.2310000	1.135	0.3271354
1.066	0.1453555	1.101	0.2336333	1.136	0.3300035
1.067	0.1477678	1.102	0.2362732	1.137	0.3328784
1.068	0.1501864	1.103	0.2389197	1.138	0.3357601
1.069	0.1526115	1.104	0.2415729	1.139	0.3386486
1.070	0.1550430	1.105	0.2442326	1.140	0.3415440
1.071	0.1574809	1.106	0.2468990	1.141	0.3444462
1.072	0.1599252	1.107	0.2495720	1.142	0.3473553
1.073	0.1623760	1.108	0.2522517	1.143	0.3502712
1.074	0.1648332	1.109	0.2549380	1.144	0.3531940
1.075	0.1672969	1.110	0.2576310	1.145	0.3561236
1.076	0.1697670	1.111	0.2603306	1.146	0.3590601
1.077	0.1722435	1.112	0.2630369	1.147	0.3620035
1.078	0.1747266	1.113	0.2657499	1.148	0.3649538
1.079	0.1772160	1.114	0.2684695	1.149	0.3679109
1.080	0.1797120	1.115	0.2711959	1.150	0.3708750
1.081	0.1822144	1.116	0.2739289	1.151	0.3738460
1.082	0.1847234	1.117	0.2766686	1.152	0.3768238
1.083	0.1872388	1.118	0.2794150	1.153	0.3798086
1.084	0.1897607	1.119	0.2821682	1.154	0.3828003
1.085	0.1922891	1.120	0.2849280	1.155	0.3857989

TAB XXX.

$$0 = z^3 - az - b$$

$$r = \sqrt{\left(\frac{4}{3}a\right)}$$

$$\text{cof. } 3\omega = \frac{4b}{r^3}$$

$$z = r \text{ cof. } \omega$$

$$0 = z^3 - az - b$$

$$r = \sqrt{\left(\frac{4}{3}a\right)}$$

$$\text{cof. hyperb. } 3\omega = \frac{4b}{r^3}$$

$$z = r \text{ cof. hyp. } \omega$$

$$0 = z^3 - az - b$$

$$r = \sqrt{\left(\frac{4}{3}a\right)}$$

$$\text{sec. } \Phi = \frac{4b}{r^3}$$

$$\text{tang. } \psi = \sqrt[3]{\text{tang. } (45 + \frac{1}{2}\Phi)}$$

$$z = r \text{ sec. } (2\psi - 90^\circ)$$

$$0 = z^3 + az - b$$

$$r = \sqrt{\frac{4}{3}a}$$

$$\text{fin. hyperb. } 3\omega = \frac{4b}{r^3}$$

$$z = r \text{ fin. hyp. } \omega$$

$$0 = z^3 + az - b$$

$$r = \sqrt{\left(\frac{4}{3}a\right)}$$

$$\text{tang. } \Phi = \frac{4b}{r^3}$$

$$\text{tang. } \psi = \sqrt[3]{\text{tang. } (45^\circ + \frac{1}{2}\Phi)}$$

$$z = r \text{ tang. } (2\psi - 90^\circ)$$

T A B. XXXI.

$$\circ = x^4 + Ax^2 + Bx + C$$

$$r = \frac{2}{7} \sqrt{(AA + 12 C)}$$

$$D = \frac{2 A^3 - 72 AC + 27 BB}{36 C + 3 AA}$$

$$\text{cof. } 3 \omega = \frac{D}{r}$$

$$z = r \text{ cof. } \omega$$

$$a = \sqrt{(z - \frac{2}{7} A)}$$

$$x = \pm \frac{1}{2} a \pm \sqrt{(-\frac{1}{2} A - \frac{1}{4} a^2 - \frac{B}{2a})}$$

$$\circ = x^4 + Ax^2 + Bx + C$$

$$r = \frac{2}{7} \sqrt{(AA + 12 C)}$$

$$D = \frac{2 A^3 - 72 AC + 27 BB}{36 C + 3 AA}$$

$$\text{cof. hyp. } 3 \omega = \frac{D}{r}$$

$$z = r \text{ cof. hyp. } \omega$$

$$a = \sqrt{(z - \frac{2}{7} A)}$$

$$x = \pm \frac{1}{2} a \pm \sqrt{(-\frac{1}{2} A - \frac{1}{4} a^2 - \frac{B}{2a})}$$

$$\circ = x^4 + Ax^2 + Bx - C$$

$$12 C > AA$$

$$r = \frac{2}{7} \sqrt{(12 C - AA)}$$

$$C = \frac{2 A^3 + 72 AC + 27 BB}{-36 C + 3 AA}$$

$$\text{fin. hyp. } 3 \omega = \frac{D}{r}$$

$$z = r \text{ fin. hyp. } \omega$$

$$a = \sqrt{(z - \frac{2}{7} A)}$$

$$x = \pm \frac{1}{2} a \pm \sqrt{(-\frac{1}{2} A - \frac{1}{4} a^2 - \frac{B}{2a})}$$

T A B. XXXII.

Ang. trans.	Sector hyperbol.	Sinus hyperbol.	Cofinus hyperbol.	log. fin. hyperbol.
0	0.000000	0000000	1.0000000	infin. negat.
1	.75803	.174551	1.0001523	8.2419215
2	.151628	.349208	1.0006095	8.5430838
3	.227500	.524078	1.0013723	8.7193958
4	.303441	.699268	1.0024419	8.8446437
5	.379475	.874887	1.0038198	8.9419518
6	.455626	1051042	1.0055082	9.0216202
7	.531916	1227846	1.0075099	9.0891438
8	.608369	1405408	1.0098276	9.1478025
9	.685011	1583844	1.0124651	9.1997125
10	.761865	1763270	1.0154267	9.2463188
11	.838955	1943803	1.0187168	9.2886523
12	.916308	2125565	1.0223407	9.3274745
13	.993948	2308682	1.0263039	9.3633641
14	1071902	2493280	1.0301635	9.3967711
15	1150195	2679492	1.0352762	9.4280525
16	1228856	2867454	1.0402994	9.4574964
17	1307911	3057307	1.0456918	9.4853390
18	1387390	3249197	1.0514622	9.5117760
19	1467320	3443276	1.0576207	9.5369719
20	1547732	3639706	1.0641778	9.5610658
21	1628657	3838640	1.0711450	9.5841774
22	1710126	4040262	1.0785347	9.6064096
23	1792171	4244749	1.0863604	9.6278519
24	1874826	4452287	1.0946363	9.6485831
25	1958127	4663077	1.1033779	9.6686725
26	2042108	4877326	1.1126019	9.6881818
27	2126807	5095254	1.1223262	9.7071650
28	2212263	5317094	1.1325701	9.7256744
29	2298515	5543090	1.1433141	9.7437520
30	2385606	5773503	1.1547005	9.7614394

T A B. XXXII.

log. cofin. hyperbol.	Tang. ang. communis.	log. tang. ang. commun.	Ang. communis.
10.0000000	0000000	infin. negat.	0. 0. 0. 0.
10.0000662	174524	8. 2418553	0.59.59.5
10.0002646	348995	8. 5428192	1.59.55.7
10.0005956	523360	8. 7188002	2.59.45.2
10.0010592	697565	8. 8435845	3.59.25.0
10.0016558	871557	8. 9402960	4.58.51.8
10.0023857	1045285	9. 0192346	5.58. 2.2
10.0032493	1218693	9. 0858945	6.56.54.0
10.0042472	1391731	9. 1435553	7.55.23.0
10.0053801	1564345	9. 1943324	8.53.27.5
10.0066485	1736482	9. 2396702	9.51. 3.9
10.0080534	1908090	9. 2805988	10.48. 9.7
10.0095956	2079117	9. 3178789	11.44.42.2
10.0112761	2249511	9. 3520880	12.40.39.8
10.0130959	2419219	9. 3836752	13.35.59.3
10.0150562	2588190	9. 4129962	14.30.38.9
10.0171584	2756374	9. 4403381	15.24.36.7
10.0194037	2923717	9. 4659353	16.17.50.7
10.0217937	3090170	9. 4899824	17.10.19.3
10.0243299	3255682	9. 5126419	18. 2. 1.0
10.0270142	3420202	9. 5340517	18.52.54.2
10.0298483	3583679	9. 5543292	19.42.57.8
10.0328341	3746066	9. 5735754	20.32.10.6
10.0359739	3907311	9. 5918780	21.20.31.7
10.0392698	4067366	9. 6093133	22. 8. 0.1
10.0427243	4226183	9. 6259483	22.54.35.3
10.0463397	4383712	9. 6418420	23.40.16.5
10.0501190	4539905	9. 6570468	24.25. 3.4
10.0540651	4694716	9. 6716093	25. 8.55.4
10.0581807	4848096	9. 6855712	25.51.52.4
10.0624694	5000000	9. 6989700	26.33.54.2

T A B. XXXII.

Ang. tranſ.	Sector hyperbol.	Sinus hyperbol.	Cofinus hyperbol.	log. fin. hyperbol.
30	2385606	5773503	I.1547005	9.7614394
31	2473580	6008606	I.1666334	9.7787737
32	2562480	6248694	I.1791784	9.7957892
33	2652356	6494076	I.1923633	9.8125174
34	2743256	6745085	I.2062180	9.8289874
35	2835233	7002075	I.2207746	9.8452268
36	2928341	7265426	I.2360680	9.8612610
37	3022637	7535540	I.2521357	9.8771144
38	3118182	7812856	I.2690182	9.8928098
39	3215039	8097840	I.2867596	9.9083692
40	3313275	8390996	I.3054073	9.9238135
41	3412960	8692868	I.3250130	9.9391631
42	3514169	9004041	I.3456327	9.9544374
43	3616981	9325151	I.3673275	9.9696559
44	3721481	9656888	I.3901636	9.9848372
45	3827757	I.0000000	I.4142136	10.0000000
46	3935904	I.0355303	I.4395565	10.0151628
47	4046025	I.0723687	I.4662792	10.0303441
48	4158226	I.1106125	I.4944756	10.0455626
49	4272623	I.1503684	I.5242531	10.0608369
50	4389341	I.1917536	I.5557238	10.0761865
51	4508513	I.2348972	I.5890157	10.0916308
52	4630281	I.2799416	I.6242692	10.1071902
53	4754801	I.3270448	I.6616401	10.1228856
54	4882240	I.3763819	I.7013016	10.1387390
55	5012777	I.4281480	I.7434468	10.1547732
56	5146610	I.4825610	I.7882916	10.1710126
57	5283952	I.5398650	I.8360784	10.1874826
58	5425036	I.6003345	I.8870799	10.2042108
59	5570117	I.6642795	I.9416040	10.2212263
60	5719475	I.7320508	2.0000000	10.2385606

T A B. XXXII.

log. cof. hyperbol.	Tang. ang. communis.	log. tang. ang. communis.	Angulus communis.
10.0624694	5000000	9.6989700	26.33.54.2
10.0669344	5150381	9.7118393	27.15. 0.7
10.0715795	5299193	9.7242097	27.55.11.9
10.0764086	5446390	9.7361088	28.34.28.0
10.0814258	5591929	9.7475617	29.12.49.0
10.0866315	5735764	9.7585913	29.50.15.2
10.0920424	5877853	9.7692187	30.26.47.0
10.0976514	6018150	9.7794630	31. 2.24.7
10.1034679	6156615	9.7893420	31.37. 8.4
10.1094974	6293204	9.7988718	32.11.59.0
10.1157460	6427876	9.8080675	32.43.56.4
10.1222201	6560590	9.8169429	33.15.57.9
10.1289265	6691306	9.8255109	33.47.15.7
10.1358725	6819984	9.8337833	34.17.38.1
10.1430659	6946584	9.8417713	34.47.10.0
10.1505150	7071068	9.8494850	35.15.52.0
10.1582286	7193398	9.8569341	35.43.44.3
10.1662167	7313537	9.8641275	36.10.48.0
10.1744891	7431448	9.8710735	36.37.15.5
10.1830571	7547096	9.8777799	37. 2.31.9
10.1919325	7660444	9.8842540	37.27.13.4
10.2011282	7771460	9.8905026	37.51. 8.7
10.2106580	7880107	9.8965321	38.14.18.6
10.2205370	7986355	9.9023486	38.36.43.6
10.2307813	8090170	9.9079576	38.58.24.4
10.2414087	8191521	9.9133645	39.19.21.9
10.2524383	8290376	9.9185742	39.39.36.0
10.2638912	8386706	9.9235914	39.59. 8.1
10.2757903	8480481	9.9284205	40.17.58.4
10.2881607	8571673	9.9330656	40.36. 7.5
10.3010300	8660254	9.9375306	40.53.36.2

T A B. XXXII.

Ang. tranf.	Sector hyperbol.	Sinus hyperbol.	Cofinus hyperbol.	log. fin. hyperbol.
60	5719475	1.7320508	2.0000000	10.2385606
61	5873419	1.8040478	2.0626653	10.2562480
62	6032289	1.8807265	2.1300545	10.2743256
63	6296463	1.9626105	2.2026893	10.2928341
64	6366359	2.0503038	2.2811720	10.3118182
65	6542448	2.1445069	2.3662016	10.3313275
66	6725255	2.2460368	2.4585933	10.3514169
67	6915374	2.3558524	2.5593047	10.3721481
68	7113477	2.4750869	2.6694672	10.3935904
69	7320331	2.6050891	2.7904281	10.4158226
70	7536812	2.7474774	2.9238044	10.4389341
71	7763935	2.9042109	3.0715535	10.4630281
72	8002875	3.0776835	3.2360680	10.4882240
73	8255012	3.2708526	3.4203036	10.5146610
74	8521975	3.4874144	3.5279553	10.5425036
75	8805709	3.7320508	3.8637033	10.5719475
76	9108562	4.0107809	4.1335655	10.6032289
77	9433405	4.3314759	4.4454115	10.6366359
78	9783798	4.7046301	4.8097343	10.6725255
79	1.0164231	5.1445540	5.2408431	10.7113477
80	1.0580482	5.6712818	5.7587705	10.7536812
81	1.1040158	6.3137515	6.3924532	10.8002875
82	1.1553563	7.1153697	7.1852965	10.8521975
83	1.2135139	8.1443464	8.2055090	10.9108562
84	1.2809042	9.5143645	9.5667722	10.9783798
85	1.3599059	11.4300523	11.4737132	11.0580482
86	1.4569162	14.3006663	14.3355870	11.1553563
87	1.5819321	19.0811367	19.1073226	11.2809042
88	1.7580785	28.6362533	28.6537083	11.4569162
89	2.0591416	57.2899617	57.2986885	11.7580785
90	infini.	infini.	infini.	infini.

T A B. XXXII.

log. cof. hyperbol.	Tang. ang. communis.	log. tang. ang. communis.	Angulus communis.
10.3010300	8660254	9.9375306	40.53.36.2
10.3144288	8746197	9.9418193	41.10.24.9
10.3283907	8829470	9.9459349	41.26.34.1
10.3429532	8910065	9.9498809	41.42. 4.5
10.3581580	8987940	9.9536602	41.56.56.4
10.3740517	9063078	9.9572757	42.11.10.3
10.3906867	9135454	9.9607302	42.24.47.2
10.4081220	9205049	9.9640261	42.37.47.0
10.4264246	9271839	9.9671659	42.50.10.3
10.4456708	9335804	9.9701517	43. 1.57.4
10.4659483	9396926	9.9729857	43.13. 9.0
10.4873581	9455185	9.9756701	43.23.45.2
10.5100176	9510565	9.9782063	43.33.46.8
10.5340647	9563048	9.9805963	43.43.13.7
10.5596619	9612617	9.9828416	43.52. 6.4
10.5870038	9659258	9.9849438	44. 0.25.3
10.6163248	9702957	9.9869041	44. 8.20.9
10.6479120	9743701	9.9887239	44.15.22.5
10.6821211	9781476	9.9904044	44.22. 1.5
10.7194012	9816271	9.9919466	44.28. 7.6
10.7603298	9848077	9.9933515	44.33.41.2
10.8056676	9876883	9.9946199	44.38.42.4
10.8564447	9902680	9.9957528	44.43.11.4
10.9141055	9925462	9.9967507	44.47. 8.4
10.9807654	9945218	9.9976143	44.50.33.5
11.0597040	9961947	9.9983442	44.53.26.7
11.1564155	9975640	9.9989408	44.55.48.5
11.2811998	0986295	9.9994044	44.57.38.6
11.4571808	9992908	9.9997354	44.58.57.2
11.7581447	9998477	9.9999338	44.59.42.6
infini.	1.0000000	10.0000000	45. 0. 0.0

Y

T A B. XXXIII.

Fig. II.

Qq E Hyperbola aequalitera

C A Asymptotus.

C B Axis

CqQC Sector

 $p q$ Sinus hyperbolicus = QP $C p$ cofin. hyperbol. = CP $q C Q$ Angulus communis

P C Q Angulus transcendens.

$$C Q = 1, \text{ Sector } C q Q C = \frac{1}{2} \omega$$

$$p q = \frac{1}{2} (e^{\omega} - e^{-\omega}) = \text{tang. PCQ}$$

$$C p = \frac{1}{2} (e^{\omega} + e^{-\omega}) = \text{sec. PCQ}$$

$$\text{tang. } q C Q = \text{fin. PCQ.}$$

T A B. XXXIV.

$$\begin{aligned} \sqrt{1+x} &= 1 + \frac{1}{2}x - \frac{1}{8}x^2 + \frac{1}{16}x^3 - \frac{5}{128}x^4 + \frac{7}{256}x^5 \\ &\quad - \frac{21}{1024}x^6 + \frac{33}{2048}x^7 - \frac{429}{32768}x^8 + \frac{715}{65536}x^9 - \&c. \end{aligned}$$

$$\begin{aligned} \frac{1}{\sqrt{1-x}} &= 1 + \frac{1}{2}x + \frac{3}{8}x^2 + \frac{5}{16}x^3 + \frac{35}{128}x^4 + \frac{63}{256}x^5 \\ &\quad + \frac{231}{1024}x^6 + \frac{429}{2048}x^7 + \frac{6435}{32768}x^8 + \&c. \end{aligned}$$

T A B. XXXIV.

$$\sqrt{(aa+b)} = a + \frac{I}{2a:b+I}$$

$$\sqrt{(a^3+b)} = a + \frac{I}{3a^2:b+I}$$

$$\frac{2a+I}{2a:b+I}$$

$$\frac{9a^2:2b+I}{a+I}$$

$$\frac{4a:5+I}{2a+b+I}$$

$$\frac{75a^3:14b+I}{2a+\&c.}$$

$$\frac{74:10+\&c.}{74:10+\&c.}$$

$$(a+p)^n = a^n \left(\frac{2a+(n+1)p}{2a-(n-1)p} - n \cdot \frac{n^2-1}{12} \left(\frac{p}{a} \right)^3 - \&c. \right)$$

$$\sqrt{(a+p)} = \frac{4a+3p}{4a+p} \sqrt{a} + \frac{I}{32} \cdot \frac{p^3}{a^3} \sqrt{a} + \&c.$$

$$\sqrt[3]{(a+p)} = \frac{3a+2p}{3a+p} \sqrt[3]{a} + \frac{2}{81} \cdot \frac{p^3}{a^3} \cdot \sqrt[3]{a} + \&c.$$

$$a^2 + b = (a+x)^2$$

$$x = \frac{b}{2a+x}$$

$$a^3 + b = (a+x)^3$$

$$x = \frac{b}{3a} \cdot \frac{I}{a+x+xx:3a}$$

T A B. XXXV.

	0.	100.	200.	300.	400.
1	1	10201	40401	90601	160801
2	4	10404	40804	91204	161604
3	9	10609	41209	91809	162409
4	16	10816	41616	92416	163216
5	25	11025	42025	93025	164025
6	36	11236	42436	93636	164836
7	49	11449	42849	94249	165649
8	64	11664	43264	94864	166464
9	81	11881	43681	95481	167281
10	100	12100	44100	96100	168100
11	121	12321	44521	96721	168921
12	144	12544	44944	97344	169744
13	169	12769	45369	97969	170569
14	196	12996	45796	98596	171396
15	225	13225	46225	99225	172225
16	256	13456	46656	99856	173056
17	289	13689	47089	100489	173889
18	324	13924	47524	101124	174724
19	361	14161	47961	101761	175561
20	400	14400	48400	102400	176400
21	441	14641	48841	103041	177241
22	484	14884	49284	103684	178084
23	529	15129	49729	104329	178929
24	576	15376	50176	104976	179776
25	625	15625	50625	105625	180625
26	676	15876	51076	106276	181476
27	729	16129	51529	106929	182329
28	784	16384	51984	107584	183184
29	841	16641	52441	108241	184041
30	900	16900	52900	108900	184900
31	961	17161	53361	109561	185761
32	1024	17424	53824	110224	186624
33	1089	17689	54289	110889	187489
34	1156	17956	54756	111556	188356

T A B. XXXV.

500.	600.	700.	800.	900.
251001	361201	491401	641601	811801
252004	362404	492804	643204	813604
253009	363609	494209	644809	815409
254016	364816	495616	646416	817216
255025	366025	497025	648025	819025
256036	367236	498436	649636	820836
257049	368449	499849	651249	822649
258064	369664	501264	652864	824464
259081	370881	502681	654481	826281
260100	372100	504100	656100	828100
261121	373321	505521	657721	829921
262144	374544	506944	659344	831744
263169	375769	508369	660969	833569
264196	376996	509796	662596	835396
265225	378225	511225	664225	837225
266256	379456	512656	665856	839056
267289	380689	514089	667489	840889
268324	381924	515524	669124	842724
269361	383161	516961	670761	844561
270400	384400	518400	672400	846400
271441	385641	519841	674041	848241
272484	386884	521284	675684	850084
273529	388129	522729	677329	851929
274576	389376	524176	678976	853776
275625	390625	525625	680625	855625
276676	391876	527076	682276	857476
277729	393129	528529	683929	859329
278784	394384	529984	685584	861184
279841	395641	531441	687241	863041
280900	396900	532900	688900	864900
281961	398161	534361	690561	866761
283024	399424	535824	692224	868624
284089	400689	537289	693889	870489
285156	401956	538756	695556	872356

TAB. XXXV.

	O.	100.	200.	300.	400.
34	1156	17956	54756	111556	188356
35	1225	18225	55225	112225	189225
36	1296	18496	55696	112896	190096
37	1369	18769	56169	113569	190961
38	1444	19044	56644	114244	191844
39	1521	19321	57121	114921	192721
40	1600	19600	57600	115600	193600
41	1681	19881	58081	116281	194481
42	1764	20164	58564	116964	195364
43	1849	20449	59049	117649	196249
44	1936	20736	59536	118336	197136
45	2025	21025	60025	119025	198025
46	2116	21316	60516	119716	198916
47	2209	21609	61009	120409	199809
48	2304	21904	61504	121104	200704
49	2401	22201	62001	121801	201601
50	2500	22500	62500	122500	202500
51	2601	22801	63001	123201	203404
52	2704	23104	63504	123904	204304
53	2809	23409	64009	124609	205209
54	2916	23716	64516	125316	206116
55	3025	24025	65025	126025	207025
56	3136	24336	65536	126736	207936
57	3249	24649	66049	127449	208849
58	3364	24964	66564	128164	209764
59	3481	25281	67081	128881	210681
60	3600	25600	67600	129600	211600
61	3721	25921	68121	130321	212521
62	3844	26244	68644	131044	213444
63	3969	26569	69169	131769	214369
64	4096	26896	69696	132496	215296
65	4225	27225	70225	133225	216225
66	4356	27556	70756	133956	217156
67	4489	27889	71289	134689	218089

TAB. XXXV.

500.	600.	700.	800.	900.
285156	401956	538756	695556	872356
286225	403225	540225	697225	874225
287296	404496	541696	698896	876096
288369	405769	543169	700569	877969
289444	407044	544644	702244	879844
290521	408321	546121	703921	881721
291600	409600	547600	705600	883600
292681	410881	549081	707281	885481
293764	412164	550564	708964	887364
294849	413449	552049	710649	889249
295936	414736	553536	712336	891136
297025	416025	555025	714025	893025
298116	417316	556516	715716	894916
299209	418609	558009	717409	896809
300304	419904	559504	719104	898704
301401	421201	561001	720801	900601
302500	422500	562500	722500	902500
303601	423801	564001	724201	904401
304704	425104	565504	725904	906304
305809	426409	567009	727609	908209
306916	427716	568516	729316	910116
308025	429025	570025	731025	912025
309136	430336	571536	732736	913936
310249	431649	573049	734449	915849
311364	432964	574564	736164	917764
312481	434281	576081	737881	919681
313600	435600	577600	739600	921600
314721	436921	579121	741321	923521
315844	438244	580644	743044	925444
316969	439569	582169	744769	927369
318096	440896	583696	746496	929296
319225	442225	585225	748225	931225
320356	443556	586756	749956	933156
321489	444889	508289	751689	935089

T A B. XXXV.

	O.	100.	200.	300.	400.
67	4489	27889	71289	134689	218089
68	4624	28224	71824	135424	219024
69	4761	28561	72361	136161	219961
70	4900	28900	72900	136900	220900
71	5041	29241	73441	137641	221841
72	5184	29584	73984	138384	222784
73	5329	29929	74529	139129	223729
74	5476	30276	75076	139876	224676
75	5625	30625	75625	140625	225625
76	5776	30976	76176	141376	226576
77	5929	31329	76729	142129	227529
78	6084	31684	77284	142884	228484
79	6241	32041	77841	143641	229441
80	6400	32400	78400	144400	230400
81	6561	32761	78961	145161	231361
82	6724	33124	79524	145924	232324
83	6889	33489	80089	146689	233289
84	7056	33856	80656	147456	234256
85	7225	34225	81225	148225	235225
86	7396	34596	81796	148996	236196
87	7569	34969	82369	149769	237169
88	7744	35344	82944	150544	238144
89	7921	35721	83521	151321	239121
90	8100	36100	84100	152100	240100
91	8281	36481	84681	152881	241081
92	8464	36864	85264	153664	242064
93	8649	37249	85849	154449	243049
94	8836	37636	86436	155236	244036
95	9025	38025	87025	156025	245025
96	9216	38416	87616	156816	246016
97	9409	38809	88209	157609	247009
98	9604	39204	88804	158404	248004
99	9801	39601	89401	159201	249001
100	10000	40000	90000	160000	250000

T A B. XXXV.

500.	600.	700.	800.	900.
321489	444889	588289	751689	935089
322624	446224	589824	753424	937024
323761	447561	591361	755161	938961
324900	448900	592900	756900	940900
326041	450241	594441	758641	942841
327184	451584	595984	760384	944784
328329	452929	597529	762129	946729
329476	454276	599076	763876	948676
330625	455625	600625	765625	950625
331776	456976	602176	767376	952576
332929	458329	603729	769129	954529
334084	459684	605284	770884	956484
335241	461041	606841	772641	958441
336400	462400	608400	774400	960400
337561	463761	609961	776161	962361
338724	465124	611524	777924	964324
339889	466489	613089	779689	966289
341056	467856	614656	781456	968256
342225	469225	616225	783225	970225
343396	470596	617796	784996	972196
344569	471969	619369	786769	974169
345744	473344	620944	788544	976144
346921	474721	622521	790321	978121
348100	476100	624100	792100	980100
349281	477481	625681	793881	982081
350464	478864	627264	795664	984064
351649	480249	628849	797449	986049
352836	481636	630436	799236	988036
354025	483025	632025	801025	990025
355216	484416	633616	802816	992016
356409	485809	635209	804609	994009
357604	487204	636804	806404	996004
358801	488601	638401	808201	998001
360000	490000	640000	810000	1000000

T A B. XXXV.

	O.	100.	200.	300.	400.
1	1	1030301	8120601	27270901	64481201
2	8	1061208	8242408	27543608	64964808
3	27	1092727	8365427	27818127	65450827
4	64	1124864	8489664	28094464	65939264
5	125	1157625	8615125	28372625	66430125
6	216	1191016	8741816	28652616	66923416
7	343	1225043	8869743	28934443	67419143
8	512	1259712	8998912	29218112	67917312
9	729	1295029	9129329	29503629	68417929
10	1000	1331000	9261000	29791000	68921000
11	1331	1367631	9393931	30080231	69426531
12	1728	1404928	9528128	30371328	69934528
13	2197	1442897	9663597	30664297	70444997
14	2744	1481544	9800344	30959144	70957944
15	3375	1520875	9938375	31255875	71473375
16	4096	1560896	10077696	31554496	71991296
17	4913	1601613	10218313	31855013	72511713
18	5832	1643032	10360232	32157432	73034632
19	6859	1685159	10503459	32461759	73560059
20	8000	1728000	10648000	32768000	74088000
21	9261	1771561	10793861	33076161	74618461
22	10648	1815848	10941048	33386248	75151448
23	12167	1860867	11089567	33698267	75686967
24	13824	1906624	11239424	34012224	7622024
25	15625	1953125	11390625	34328125	76765625
26	17576	2000376	11543176	34645976	77308776
27	19683	2048383	11697083	34965783	77854483
28	21952	2097152	11852352	35287552	78402752
29	24389	2146689	12008989	35611289	78953589
30	27000	2197000	12167000	35937000	79507000
31	29791	2248091	12326391	36264691	80062991
32	32768	2299968	12487168	36594368	80621568
33	35937	2352637	12649337	36926037	81182737
34	39304	2406104	12812904	37259704	81746504

T A B. XXXVI.

500.	600.	700.	800.	900.
125751501	217081801	344472101	513922401	731432701
126506008	218167208	345948408	515849608	733870808
127263527	219256227	347428927	517781627	736314327
128024064	220348864	348913664	519718464	738763264
128787625	221445125	350402625	521660125	741217625
129554216	222545016	351895816	523606616	743677416
130323843	223648543	353393243	525557943	746142643
131096512	224755712	354894912	527514112	748613312
131872229	225866529	356400829	529475129	751089429
132651000	226981000	357911000	531441000	753571000
133432831	228099131	359425431	533411731	756058031
134217728	229220928	360944128	535387328	758550528
135005697	230346397	362467097	537367797	761048497
135796744	231475544	363994344	539353144	763551944
136590875	232608375	365525875	541343375	766060875
137388096	233744896	367061696	543338496	768575296
138188413	234885113	368601813	545338513	771095213
138991832	236029032	370146232	547343432	773620632
139798359	237176659	371694959	549353259	776151559
140608000	238328000	373248000	551368000	778688000
141420761	239483061	374805361	553387661	781229961
142236648	240641848	376367048	555412248	783777448
143055667	241804367	377933067	557441767	786330467
143877824	242970624	379503424	559476224	788889024
144703125	244140625	381078125	561515625	791453125
145531576	245314376	382657176	563559976	794022776
146363183	246491883	384240583	565609283	796597983
147197952	247673152	385828352	567663552	799178752
148035589	248858189	387420489	569722789	801765089
148877000	250047000	389017000	571787000	804357000
149721291	251239591	390617891	573856191	806954491
150568768	252435968	392223168	575930368	809557568
151419437	253636137	393832837	578009537	812166237
152273304	254840104	395446904	580093704	814780504

T A B. XXXVI.

	0.	100.	200.	300.	400.
34	39304	2406104	12812904	37259704	81746504
35	42875	2460375	12977875	37595375	82312875
36	46656	2515456	13144256	37933056	82881856
37	50653	2571353	13312053	38272753	83453453
38	54872	2628072	13481272	38614472	84027672
39	59319	2685619	13651919	38958219	84604519
40	64000	2744000	13824000	39304000	85184000
41	68921	2803221	13997521	39651821	85766121
42	74088	2863288	14172488	40001688	86350888
43	79507	2924207	14348907	40353607	86938307
44	85184	2985984	14526784	40707584	87528384
45	91125	3048625	14706125	41063625	88121125
46	97336	3112136	14886936	41421736	88716536
47	103823	3176523	15069223	41781923	89314623
48	110592	3241792	15252992	42144192	89915392
49	117649	3307949	15438249	42508549	90518849
50	125000	3375000	15625000	42875000	91125000
51	132651	3442951	15813251	43243551	91733851
52	140608	3511808	16003008	43614208	92345408
53	148877	3581577	16194277	43986977	92959677
54	157464	3652264	16387064	44361864	93576664
55	166375	3723875	16581375	44738875	94196375
56	175616	3796416	16777216	45118016	94818816
57	185193	3869893	16974593	45499293	95443993
58	195112	3944312	17173512	45882712	96071912
59	205379	4019679	17373979	46268279	96702579
60	216000	4096000	17576000	46656000	97336000
61	226981	4173281	17779581	47045881	97972181
62	238328	4251528	17984728	47437928	98611128
63	250047	4330747	18191447	47832147	99252847
64	262144	4410944	18399744	482228544	99897344
65	274625	4492125	18609625	48627125	100544625
66	287496	4574296	18821096	49027896	101194696
67	300763	4657463	19034163	49433083	101847563

TAB. XXXVI.

500.	600.	700.	800.	900.
152273304	254840104	395446904	580093704	814780504
153130375	256047875	397065375	582182875	817400375
153990656	257259456	398688256	584277056	820025856
154854153	258474853	400315553	586376253	822656953
155720872	259694072	401947272	588480472	825293672
156590819	260917119	403583419	590589719	827936019
157464000	262144000	405224000	592704000	830584000
158340421	263374721	406869021	594823321	833237621
159220088	264609288	408518488	596947688	835896888
160103007	265847707	410172407	599077107	838561807
160989184	267089984	411830784	601211584	841232384
161878625	268336125	413493625	603351125	843908625
162771336	269586136	415160936	605495736	846590536
163667323	270840023	416832723	607645423	849278123
164566592	272097792	418508992	609800192	851971392
165469149	273359449	420189749	611960049	854670349
166375000	274625000	421875000	614125000	857375000
167284151	275894451	423564751	616295051	860085351
168196608	277167808	425259008	618470208	862801408
169112377	278445077	426957777	620650477	865523177
170031464	279726264	428661064	622835864	868250664
170953875	281011375	430368875	625026375	870983875
171879616	282300416	432081216	627222016	873722816
172808693	283593393	433798093	629422793	876467493
173741112	284890312	435519512	631628712	879217912
174676879	286191179	437245479	633839779	881974079
175616000	287496000	438976000	636056000	884736000
176558481	288804781	440711081	638277381	887503681
177504328	290117528	442450728	640503928	890277128
178453547	291434247	444194947	642735647	893056347
179406144	292754944	445943744	644972544	895841344
180362125	294079625	447697125	647214625	898632125
181321496	295408296	449455096	649461896	901428696
182284263	296740963	451217663	651714363	904231063

T A B. XXXVI.

	0.	100.	200.	300.	400.
67	300763	4657463	19034163	49430863	101847563
68	314432	4741632	19248832	49836032	102503232
69	328509	4826809	19465109	50243409	103161709
70	343000	4913000	19683000	50653000	103823000
71	357911	5000211	19902511	51064811	104487111
72	373248	5088448	20123648	51478848	105154048
73	389017	5177717	20346417	51895117	105823817
74	405224	5268024	20570824	52313624	106496424
75	421875	5359375	20796875	52734375	107171875
76	438976	5451776	21024576	53157376	107850176
77	456533	5545233	21253933	53582633	108531333
78	474552	5639752	21484952	54010152	109215352
79	493039	5735339	21717639	54439939	109902239
80	512000	5832000	21952000	54872000	110592000
81	531441	5929741	22188041	55306341	111284641
82	551368	6028568	22425768	55742968	111980168
83	571787	6128487	22665187	56181887	112678587
84	592704	6229504	22906304	56623104	113379904
85	614125	6331625	23149125	57066625	114084125
86	636056	6434856	23393656	57512456	114791256
87	658503	6539203	23639903	57960603	115501303
88	681472	6644672	23887872	58411072	116214272
89	704969	6751269	24137569	58863869	116930169
90	729000	6859000	24389000	59319000	117649000
91	753571	6967871	24642171	59776471	118370771
92	778688	7077888	24897088	60236288	119095488
93	804357	7189057	25153757	60698457	119823157
94	830584	7301384	25412184	61162984	120553784
95	857375	7414875	25672375	61629875	121287375
96	884736	7529536	25934336	62099136	122023936
97	912673	7645373	26198073	62570773	122763473
98	941192	7762392	26463592	63044792	123505992
99	970299	7880599	26730899	63521199	124251499
100	1000000	8000000	27000000	64000000	125000000

T A B. XXXV.

500.	600.	700.	800.	900.
182284263	296740963	451217663	651714363	904231063
183250432	298077632	452984832	653972032	907039232
184220009	299418309	454756609	656234909	909853209
185193000	300763000	456533000	658503000	912673000
186169411	302111711	458314011	660776311	915498611
187149248	303464448	460099648	663054848	918330048
188132517	304821217	461889917	665338617	921167317
189119224	306182024	463684824	667627624	924010424
190109375	307546875	465484375	669921875	926859375
191102976	308915776	467288576	672221376	929714176
192100033	310288733	469097433	674526133	932574833
193100552	311665752	470910952	676836152	935441352
194104539	313046839	472729139	679151439	938313739
195112000	314432000	474552000	681472000	941192000
196122941	315821241	476379541	683797841	944076141
197137368	317214568	478211768	686128968	946966168
198155287	318611987	480048687	688465387	949862087
199176704	320013504	481890304	690807104	952763904
200201625	321419125	483736625	693154125	955671625
201230056	322828856	485587656	695506456	958585256
202262003	324242703	487443403	697864103	961504803
203297472	325660672	489303872	700227072	964430272
204336469	327082769	491169069	702595369	967361669
205379000	328509000	493039000	704969000	970299000
206425071	329939371	494913671	707347971	973242271
207474688	331373888	496793088	709732288	976191488
208527857	332812557	498677257	712121957	979146657
209584584	334255384	500566184	714516984	982107784
210644875	335702375	502459875	716917375	985074875
211708736	337153536	504358336	719323136	988047936
212776173	338608873	506261573	721734273	991026973
213847192	340068392	508169592	724150792	994011992
214921799	341532099	510082399	726572699	997002999
216000000	343000000	512000000	729000000	100000000

TAB. XXXVII.

1	1	1	1	1	1	1	1	1
2	3	4	5	6	7	8	9	
3	6	10	15	21	28	36	45	
4	10	20	35	56	84	120	165	
5	15	35	70	126	210	330	495	
6	21	56	126	252	462	792	1287	
7	28	84	210	462	924	1716	3003	
8	36	120	330	792	1716	3432	6435	
9	45	165	495	1287	3003	6435	12870	
10	55	220	715	2002	5005	11440	24310	
11	66	286	1001	3003	8008	19448	43758	
12	78	364	1365	4368	12376	31824	75582	
13	91	455	1820	6188	18564	50388	125970	
14	105	560	2380	8568	27132	77520	203490	
15	120	680	3060	11628	38760	116280	319770	
16	136	816	3876	15504	54264	170544	490314	
17	153	969	4845	20349	74613	245157	735471	
18	171	1140	5985	26334	100947	346104	1081575	
19	190	1330	7315	33649	134596	480700	1562275	
20	210	1540	8855	42504	177100	657800	2220075	
21	231	1771	10626	53130	230230	888030	3108105	
22	253	2024	12650	65780	296010	1184040	4292145	
23	276	2300	14950	80730	376740	1560780	5852925	
24	300	2600	17550	98280	475020	2035800	7888725	
25	325	2925	20475	118755	593775	2629575	10518300	
26	351	3276	23751	142506	736281	3365856	13884156	
27	378	3654	27405	169911	906192	4272048	18156204	
28	406	4060	31465	201376	1107568	5379616	23535820	
29	435	4495	35960	237336	1344904	6724520	30260340	
30	465	4960	40920	278256	1623160	8347680	38608020	

TAB. XXXVII.

I	I	I	I
10	II	12	13
55	66	78	91
220	286	364	455
715	1001	1365	1820
2002	3003	4368	6188
5005	8008	12376	18564
11440	19448	31824	50388
24310	43758	75582	125970
48620	92378	167960	293930
92378	184756	352716	646646
167960	352716	705432	1352078
293930	646646	1352078	2704156
497420	1144066	2496144	5200300
817190	1961256	4457400	9657700
1307504	3268760	7726160	17383860
2042975	5311735	13037895	30421755
3124550	8436285	21474180	51895935
4686825	13123110	34597290	86493225
6906900	20030010	54627300	141120525
10015005	30045015	84672315	225792840
14307150	44352165	129024480	354817320
20160075	64512240	193536720	548354040
28048800	92561040	286097760	834451800
38567100	131128140	417225900	1251677700
52451256	183579396	600805296	1852482996
70607460	254186856	854992152	2707475148
94143280	348330136	1203322288	3910797436
124403620	472733756	1676056044	5586853480
163011640	635745396	2311801440	7898654920

T A B. XXXVIII.

$$\text{I}^{\circ}. y = a + bx + cx^2 + dx^3 + ex^4 + \&c.$$

$$= A + B \frac{x-m}{m} + C \frac{x-m}{m} \cdot \frac{x-n}{n} + D \frac{x-m}{m} \cdot \frac{x-n}{n} \cdot \frac{x-p}{p} \\ + \&c.$$

$$x = m . n . p . q . r \&c.$$

$$y = \alpha . \beta . \gamma . \delta . \epsilon \&c.$$

$$A = \alpha$$

$$B = (\beta - A) \cdot \frac{m}{n-m}$$

$$C = (\gamma - A - B \cdot \frac{p-m}{m}) \cdot \frac{m}{p-m} \cdot \frac{n}{p-n}$$

$$D = (\delta - A - B \cdot \frac{q-m}{m} - C \cdot \frac{q-m}{m} \cdot \frac{q-n}{n}) \cdot \frac{m}{q-m} \cdot \frac{n}{q-n} \cdot \frac{p}{q-p}$$

&c.

$$m . n . p . q . r \&c.$$

$$1 . 2 . 3 . 4 . 5 \&c.$$

$$A = \alpha$$

$$B = \beta - \alpha$$

$$C = \gamma - 2\beta + \alpha$$

$$D = \delta - 3\gamma + 3\beta - \alpha \&c.$$

$$\text{II}^{\circ}. y = ax + bx^2 + cx^3 + dx^4 + ex^5 + \&c.$$

$$= Ax + Bx \cdot \frac{x-m}{m} + Cx \frac{x-m}{m} \cdot \frac{x-n}{n} + \&c.$$

$$x = m . n . p . q . r \&c.$$

$$y = \alpha . \beta . \gamma . \delta . \epsilon \&c.$$

$$A = \alpha$$

$$B = (\beta : n - A) \frac{m}{n-m}$$

$$C = (\gamma : p - A - B \cdot \frac{p-m}{m}) \cdot \frac{m}{p-m} \cdot \frac{n}{p-n}$$

$$D = (\delta : q - A - B \cdot \frac{q-m}{m} - C \cdot \frac{q-m}{m} \cdot \frac{q-n}{n}) \cdot \frac{m}{q-m} \cdot \frac{n}{q-n} \cdot \frac{p}{q-p}$$

&c.

$$m . n . p . q \&c.$$

$$1 . 2 . 3 . 4 \&c.$$

$$A = \alpha$$

$$B = (\beta - 2\alpha) : 2$$

$$C = (\gamma - 3\beta + 3\alpha) : 3$$

$$D = (\delta - 4\gamma + 6\beta - 4\alpha) : 4 \&c.$$

$$\text{III}^\circ. y = ax + bx^3 + cx^5 + dx^7 + \&c.$$

$$= Ax + Bx \cdot \frac{x^2 - m^2}{m^2} + Cx \cdot \frac{xx - mm}{mm} \cdot \frac{xx - nn}{nn} + \&c.$$

$$x = m \cdot n \cdot p \cdot q \cdot r \cdot \&c.$$

$$y = \alpha \cdot \beta \cdot \gamma \cdot \delta \cdot \epsilon \cdot \&c.$$

$$A = \alpha : m$$

$$B = (\beta : n - A) \cdot \frac{mm}{nn - mm}$$

$$C = (\gamma : p - A - B \frac{pp - mm}{mm}) \cdot \frac{mm}{pp - mm} \cdot \frac{nn}{pp - nn}$$

&c.

$$m \cdot n \cdot p \cdot q \ \&c.$$

$$1 \cdot 2 \cdot 3 \cdot 4 \ \&c.$$

$$A = \alpha$$

$$B = (\beta - 2\alpha) : 6$$

$$C = (\gamma - 4\beta + 5\alpha) : 30$$

$$D = (\delta - 6\gamma + 14\beta - 14\alpha) : 140$$

$$E = (\epsilon - 8\delta + 27\gamma - 48\beta + 42\alpha) : 630$$

&c.

$$\text{IV}^\circ. y = ax^2 + bx^4 + cx^6 + dx^8 + \&c.$$

$$= Ax^2 + Bx^2 \cdot \frac{xx - mm}{mm} + Cx^2 \cdot \frac{xx - mm}{mm} \cdot \frac{xx - nn}{nn}$$

$$+ \&c.$$

$$x = m \cdot n \cdot p \cdot q \ \&c.$$

$$y = \alpha \cdot \beta \cdot \gamma \cdot \delta \ \&c.$$

$$A = \alpha : mm$$

$$B = (\beta : nn - A) \cdot \frac{mm}{nn - mm}$$

$$C = (\gamma : pp - A - B \cdot \frac{pp - mm}{mm}) \cdot \frac{mm}{pp - mm} \cdot \frac{nn}{pp - nn}$$

&c.

$$m \cdot n \cdot p \cdot q \ \&c.$$

$$1 \cdot 2 \cdot 3 \cdot 4 \ \&c.$$

$$A = \alpha$$

$$B = (\beta - 4\alpha) : 12$$

$$C = (\gamma - 6\beta + 15\alpha) : 90$$

$$D = (\delta - 8\gamma + 28\beta - 56\alpha) : 560$$

$$E = (\epsilon - 10\delta + 45\gamma - 120\beta + 210\alpha) : 3150$$

$$F = (\zeta - 12\epsilon + 66\delta - 220\gamma + 495\beta - 792\alpha) : 16632$$

&c.

TAB. XXXIX.

$$y = a + bx + cx^2 + dx^3 + ex^4 + fx^5$$

$y^2 = a^2$	$2ab$	$2ac$ bb	$2ad$ $2bc$	$2ae$ $2bd$ cc	$2af$ $2be$ $2cd$
$y^3 = a^3$	$3a^2b$	$3a^2c$ $3ab^2$	$3a^2d$ $6abc$ b^3	$3a^2e$ $6abd$ $3b^2c$ $3ac^2$	$3a^2f$ $6abe$ $3b^2d$ $6acd$ $3bcc$
$y^4 = a^4$	$4a^3b$	$4a^3c$ $6a^2b^2$	$4a^3d$ $12a^2bc$ $4ab^3$	$4a^3e$ $12a^2bd$ $12ab^2c$ $6a^2c^2$ b^4	$4a^3f$ $12a^2be$ $12ab^2d$ $12a^2cd$ $4b^3c$ $12abc^2$
$y^5 = a^5$	$5a^4b$	$5a^4c$ $10a^3b^2$	$5a^4d$ $20a^3bc$ $10a^2b^3$	$5a^4e$ $20a^3bd$ $30a^2b^2c$ $10a^3c^2$ $5ab^4$	$5a^4f$ $20a^3be$ $30a^2b^2d$ $20a^3cd$ $20ab^3c$ $30a^2b^2c^2$ b^5
$y^6 = a^6$	$6a^5b$	$6a^5c$ $15a^4b^2$	$6a^5d$ $30a^4bc$ $20a^3b^3$	$6a^5e$ $30a^4bd$ $60a^3b^2c$ $15a^4c^2$ $15a^2b^4$	$6a^5f$ $30a^4be$ $60a^3b^2d$ $30a^4cd$ $60a^2b^3c$ $60a^3bc^2$ $6ab^5$
$y^7 = a^7$	$7a^6b$	$7a^6c$ $21a^5b^2$	$7a^6d$ $42a^5bc$ $35a^4b^3$	$7a^6e$ $42a^5bd$ $105a^4b^2c$ $21a^5c^2$ $35a^3b^4$	$7a^6f$ $42a^5be$ $105a^4b^2d$ $42a^5cd$ $140a^3b^3c$ $105a^4bc^2$ $21a^2b^5$

$$y = x + ax^2 + bx^3 + cx^4 + dx^5 + ex^6 + fx^7 + gx^8 + hx^9 + ix^{10}$$

$y^2 =$		1	2a	2b a ²	2c 2ab	2d 2ac b ²	2e 2ad 2bc	2f 2ae 2td c ²	2g 2af 2be 2cd	2h 2ag 2bf 2ce d ²
$y^3 =$			1	3a	3b 3a ²	3c 6ab a ³	3d 6ac 3b ² 3a ² b	3e 6ad 6bc 3a ² c 3ab ²	3f 6ae 6bd 3a ² d 6abc 3c ² b ³	3g 6af 6be 3a ² e 6abd 6cd 3b ² c 3ac ²
$y^4 =$				1	4a	4b 6a ²	4c 12ab 4a ³	4d 12ac 12ab ² 6b ² a ⁴	4e 12ad 12bc 12a ² c 12ab ² 4a ³ b	4f 12ae 12bd 6c ² 12a ² d 6a ² b ² 24abc 4a ³ c 4b ³
$y^5 =$					1	5a	5b 10a ²	5c 20ab 10a ³	5d 20ac 30a ² b 10b ² 5a ⁴	5e 20ad 20bc 30a ² c 30ab ² 20a ³ b a ⁵
$y^6 =$						1	6a	6b 15a ²	6c 30ab 20a ³	6d 30ac 15b ² 60a ² b 15a ⁴
$y^7 =$							1	7a	7b 21a ²	7c 42ab 35a ³
$y^8 =$								1	8a	8b 28a ²
$y^9 =$									1	9a

TAB. XL.

x	x^2	x^3	x^4	x^5	x^6
01	0001	000001	00000001		
02	4	0008	0016		
03	9	0027	0081	00000002	
04	16	0064	0256	0010	
05	25	0125	0625	0031	00000002
06	36	0216	1296	0078	005
07	49	0343	2401	0168	012
08	64	0512	4096	0328	026
09	81	0729	6561	0590	053
10	0100	1000	00010000	1000	100
11	21	1331	14641	1611	177
12	44	1728	20736	2487	298
13	69	2197	28561	3713	483
14	96	2744	38416	5378	755
15	0225	3375	50625	7594	00001139
16	56	4096	65536	00010490	1678
17	89	4913	83521	14199	2414
18	0324	5832	00104976	18896	3401
19	61	6859	130321	24761	4705
20	0400	8000	160000	32000	6400
21	441	9261	194481	40841	8577
22	484	010648	234256	51536	00011338
23	529	2167	279841	64363	14804
24	576	3824	331776	79626	19110
25	625	5625	390625	97656	24414
26	676	7576	456976	00118814	30892
27	729	9683	531441	143489	38742
28	784	021952	614656	172104	48189
29	841	4389	707281	205111	59482
30	900	7000	810000	243000	71900
31	961	9791	923521	286292	88750
32	1024	032768	01048576	335544	00107374
33	1089	5937	1185921	391354	129147
34	1156	9304	1336336	454354	154480

T A B. XL.

x^7	x^8	x^9	x^{10}	x^{11}
00000001 02 05 10	00000001			
19 36 63 00000105 171	02 04 08 15 26	00000001 01 02 05	00000001	
269 410 612 894 00001280	43 70 00000110 170 256	07 12 20 32 51	01 02 04 06 10	00000001 01 02
1801 2494 3405 4586 6103	378 549 783 00001103 1526	79 00000121 180 264 381	17 27 41 63 95	04 06 10 15 24
8032 00010460 13493 17250 21870	2088 2824 3778 5003 6561	543 763 00001058 1451 1968	00000141 206 296 421 590	37 56 83 00000122 177
27513 34360 42618 52523	8529 00010995 14064 17858	2644 3518 4641 6072	820 0000126 1532 2064	238 360 505 702

T A B. XL.

x	x^2	x^3	x^4	x^5	x^6
34	1156	039304	01336336	00454354	00154480
35	1225	042875	01500625	00525219	00183827
36	1296	046656	01679616	00604662	00217678
37	1369	050653	01874161	00693440	00256573
38	1444	054872	02085136	00792352	00301094
39	1521	059319	02313441	00902242	00351874
40	1600	064000	02560000	01024000	00409600
41	1681	068921	02825761	01158562	00475010
42	1764	074088	03111696	01306912	00548903
43	1849	079507	03418801	01470084	00632136
44	1936	085184	03748096	01649162	00725631
45	2025	091125	04100625	01845281	00830377
46	2116	097336	04477456	02059630	00947430
47	2209	103823	04879681	02293450	01077922
48	2304	110592	05308416	02548040	01223059
49	2401	117649	05764801	02824752	01384128
50	2500	125000	06250000	03125000	01562500
51	2601	132651	06765201	03452525	01759629
52	2704	140608	07311616	03802040	01977061
53	2809	148877	07890481	04181955	02216436
54	2916	157464	08503056	04591650	02479491
55	3025	166375	09150625	05032844	02768064
56	3136	175616	09834496	05507318	03084098
57	3249	185193	10556001	06016920	03429644
58	3364	195112	11316496	06563568	03806869
59	3481	205379	12117361	07149244	04218054
60	3600	216000	12960000	07776000	04665600
61	3721	226981	13845841	08445963	05151838
62	3844	238328	14776336	09161328	05680024
63	3969	250047	15752961	09924365	06252350
64	4096	262144	16777216	10737418	06871948
65	4225	274625	17850625	11602906	07541889
66	4356	287496	18974736	12523326	08265395
67	4489	300763	20151121	13501251	09045838

T A B. XL.

x^7	x^8	x^9	x^{10}	x^{11}
00052523 00064339	00017858 00022519	00006072 00007882	00002064 00002759	00000702 00000966
00078364 00094932 00114416 00137231 00163840	00028211 00035125 00043478 00053520 00065536	00010156 00012996 00016522 00020873 00026214	00003656 00004809 00006278 00008140 00010486	00001316 00001779 00002386 00003175 00004194
00194754 00230539 00271819 00319278 00373669	00079849 00096827 00116882 00140482 00168151	00032738 00040667 00050259 00061812 00075668	00013423 00017080 00021611 00027197 00034051	00005503 00007174 00009293 00011967 00015823
00435818 00506623 00587068 00678223 00781250	00200476 00238113 00281793 00332329 00390625	00092219 00111913 00135260 00162842 00195312	00042421 00052599 00064925 00079792 00097656	00019517 00024722 00031164 00039098 00048828
00897411 01028072 01174711 01338925 01522435	00457679 00534597 00622597 00723020 00837339	00233417 00277991 00329976 00390431 00460537	00119042 00144555 00174887 00210833 00253295	00060712 00075169 00092690 00113850 00139312
01727095 01954897 02207984 02488652 02799360	00967173 01114291 01280631 01468305 01679616	00541617 00635146 00742766 00866300 01007770	00303306 00362033 00430804 00511117 00604662	00169851 00206359 00249866 00301559 00362797
03142621 03521615 03938981 04398047 04902228	01916999 02183401 02481558 02814743 03186448	01169369 01353809 01563381 01801436 02071196	00713215 00839361 00984930 01152919 01346271	00435061 00520404 00620506 00737868 00875078
05455161 06060712	03600406 04060677	02376268 02720653	01568337 01822838	01035102 01221301

TAB. XL.

x	x^2	x^3	x^4	x^5	x^6
67	4489	300763	20151121	13501251	09045838
68	4624	314432	21381376	14539336	09886748
69	4761	328509	22667121	15640313	10791816
70	4900	343000	24010000	16807000	11764900
71	5041	357911	25411681	18042294	12810028
72	5184	373248	26873856	19349176	13931407
73	5329	389017	28398241	20730716	15133423
74	5476	405224	29986571	22190066	16420649
75	5625	421875	31640625	23730469	17797852
76	5776	438976	33362176	25355254	19269993
77	5929	456533	35153041	27067842	20842238
78	6084	474552	37015056	28871744	22519966
79	6241	493039	38950081	30070564	24308746
80	6400	512000	40960000	32768000	26214400
81	6561	531441	43046721	34867844	28242954
82	6724	551368	45212176	37073984	30400667
83	6889	571787	47458321	39390406	32694037
84	7056	592704	49787136	41821194	35129803
85	7225	614125	52200625	44370531	37714951
86	7396	636056	54700816	47042702	40456724
87	7569	658503	57289761	49842092	43362620
88	7744	681472	59969536	52773192	46440409
89	7921	704969	62742241	55840595	49698130
90	8100	729000	65610000	59049000	53144100
91	8281	753571	68574961	62403215	56786925
92	8464	778688	71639296	65908152	60635500
93	8649	804357	74805201	69568837	64699018
94	8836	830584	78074896	73390402	68986978
95	9025	857375	81450625	77378094	73509189
96	9216	884736	84934656	81537270	78275779
97	9409	912673	88529281	85873403	83297200
98	9604	941192	92236816	90392080	88584238
99	9801	970299	96059601	95099005	94148015
100	10000	1000000	10000000	100000000	100000000

T A B. XL.

x^7	x^8	x^9	x^{10}	x^{11}
06060712 06722989 07446353 08235430	04060677 04571632 05137984 05764801	02720653 03108710 03545209 04035361	01822838 02113923 02446194 02824752	01221301 01457468 01687874 01977327
04095120 10030613 11047399 12151280 13348389	06457535 07222041 08064601 08991947 10011291	04584850 05199870 05887159 06654041 07508469	03255244 03743906 04297654 04923990 05631351	02311223 02695612 03137265 03643753 04223514
14645195 16048523 17565569 19203909 20971520	11130347 12357363 13701144 15171088 16777216	08459064 09515169 10686892 11985160 13421773	06428888 07326680 08335776 09468276 10737418	04885955 05641544 06501905 07479938 08589934
22876792 24928547 26564264 29509035 32057709	18530202 20441408 22522922 24787589 27249050	15009464 16761955 18694026 20821575 23161695	12157665 13744803 15516041 17490123 19687441	09847709 11270738 12878314 14691703 16734325
34579081 37725479 40867560 44231336 47829690	29921793 32821167 35963452 39365889 43046721	25732742 28554415 31647838 35035641 38742049	22130158 24842341 27850098 31181721 34867844	19031936 21612837 24050809 27751731 31381060
51676102 55784660 60170087 64847759 69833730	47025253 51321887 55958181 60956894 66342043	42792980 47216136 52041108 57299480 63024941	38941612 43438845 48398231 53861511 59873694	35436867 39963738 45010355 50629821 56880009
75144748 80798284 86812553 93206535 100000000	72138958 78374336 85076302 92274469 100000000	69253399 76023106 83374776 91351725 100000000	66483263 73742413 81707281 90438207 100000000	63823932 71530140 80073135 89533825 100000000

TAB. XLI.

x	\sqrt{x}	x	\sqrt{x}	x	\sqrt{x}
1	1.0000000	34	5.8309519	67	8.1853528
2	1.4142136	35	5.9160798	68	8.2462112
3	1.7320508	36	6.0000000	69	8.3066239
4	2.0000000	37	6.0827625	70	8.3666003
5	2.2360680	38	6.1644140	71	8.4261498
6	2.4494897	39	6.2449980	72	8.4852814
7	2.6457513	40	6.3245553	73	8.5440037
8	2.8284272	41	6.4031242	74	8.6023253
9	3.0000000	42	6.4807407	75	8.6602540
10	3.1622776	43	6.5574385	76	8.7177979
11	3.3166248	44	6.6332496	77	8.7749644
12	3.4641016	45	6.7082039	78	8.8317609
13	3.6055513	46	6.7823300	79	8.8881944
14	3.7416574	47	6.8556546	80	8.9442719
15	3.8729833	48	6.9282032	81	9.0000000
16	4.0000000	49	7.0000000	82	9.0553851
17	4.1231056	50	7.0710678	83	9.1104335
18	4.2426407	51	7.1414284	84	9.1651514
19	4.3588989	52	7.2111025	85	9.2195445
20	4.4721359	53	7.2801099	86	9.2736185
21	4.5825757	54	7.3484692	87	9.3273791
22	4.6904157	55	7.4161985	88	9.3808315
23	4.7958315	56	7.4833148	89	9.4335811
24	4.8989795	57	7.5498344	90	9.4868330
25	5.0000000	58	7.6157731	91	9.5393920
26	5.0990195	59	7.6811457	92	9.5916630
27	5.1961524	60	7.7459667	93	9.6436507
28	5.2915024	61	7.8102497	94	9.6953597
29	5.3851648	62	7.8740079	95	9.7467943
30	5.4772256	63	7.9372539	96	9.7979590
31	5.5677644	64	8.0000000	97	9.8488578
32	5.6568542	65	8.0622577	98	9.8994949
33	5.7445626	66	8.1240384	99	9.9498744
34	5.8309519	67	8.1853528	100	10.0000000

RADICES QUADRÆTE PROPE VERÆ.

$$\sqrt{2} = \frac{7}{5}, \frac{17}{12}, \frac{41}{29}, \frac{99}{70}, \frac{239}{169}, \frac{577}{408}, \frac{1393}{985}, \frac{3363}{2378}, \frac{8119}{5741}, \text{etc.}$$

$$\sqrt{3} = \frac{7}{4}, \frac{19}{11}, \frac{26}{15}, \frac{71}{41}, \frac{97}{56}, \frac{265}{153}, \frac{362}{209}, \frac{989}{571}, \frac{1351}{780}, \frac{3691}{2131}, \text{etc.}$$

$$\sqrt{4} = 2.$$

$$\sqrt{5} = \frac{9}{4}, \frac{38}{17}, \frac{161}{72}, \frac{682}{305}, \frac{2889}{1292}, \frac{12238}{5473}, \frac{51841}{23184}, \text{etc.}$$

$$\sqrt{6} = \frac{5}{2}, \frac{22}{9}, \frac{49}{20}, \frac{218}{89}, \frac{485}{198}, \frac{2158}{881}, \frac{4801}{1960}, \frac{21362}{8721}, \text{etc.}$$

$$\sqrt{7} = \frac{8}{3}, \frac{37}{14}, \frac{45}{17}, \frac{82}{31}, \frac{127}{48}, \frac{590}{223}, \frac{717}{217}, \frac{1307}{494}, \frac{2024}{765}, \text{etc.}$$

$$\sqrt{8} = \frac{14}{5}, \frac{17}{6}, \frac{82}{29}, \frac{99}{35}, \frac{478}{169}, \frac{577}{204}, \frac{2786}{985}, \frac{3363}{1189}, \text{etc.}$$

$$\sqrt{9} = 3.$$

$$\sqrt{10} = \frac{19}{6}, \frac{117}{37}, \frac{721}{228}, \frac{4443}{1405}, \frac{27379}{8658}, \text{etc.}$$

$$\sqrt{11} = \frac{10}{3}, \frac{63}{19}, \frac{199}{60}, \frac{1257}{379}, \frac{3970}{1197}, \frac{25077}{7561}, \text{etc.}$$

$$\sqrt{12} = \frac{7}{2}, \frac{45}{13}, \frac{97}{28}, \frac{627}{181}, \frac{1351}{390}, \frac{8733}{2521}, \text{etc.}$$

T A B. XLIII.

$$\sqrt{\frac{1}{a}} = \frac{1}{a} \sqrt{a}$$

$$\sqrt{\frac{a}{b}} = \frac{1}{b} \sqrt{ab}$$

$$x^4 - ax^2 + bb = 0$$

$$x = \sqrt{\left(\frac{a+2b}{4}\right)} \pm \sqrt{\left(\frac{a-2b}{4}\right)}$$

$$\sqrt{(a \pm \sqrt{b})} = \sqrt{\frac{a + \sqrt{(aa-b)}}{2}} \pm \sqrt{\frac{a - \sqrt{(aa-b)}}{2}}$$

$$\sqrt{(a \pm \sqrt{-b})} = \sqrt{\frac{a + \sqrt{(aa+b)}}{2}} \pm \sqrt{\frac{a - \sqrt{(aa+b)}}{2}}$$

Coefficientes terminorum seriei.

$$\sqrt{(1+x)} = 1 + \frac{1}{2}x - \frac{1}{2} \cdot \frac{1}{4}x^2 + \frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4}x^3 - \text{etc.}$$

$\frac{1}{2}$		=	0,5						
$\frac{1}{2} \cdot \frac{1}{4}$		=	0,125						
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{1}{6}$	=	0,0625						
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{1}{6} \cdot \frac{1}{6}$	=	0,039062	5					
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{3}$	=	0,027343	75					
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$	=	0,020507	8125					
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{3}$	=	0,016113	28125					
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$	=	0,013092	041015	625				
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{3}$	=	0,010910	034179	6875				
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$	=	0,009273	529052	734375				
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{3}$	=	0,008008	956909	179687	5			
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$	=	0,007007	837295	532226	5625			
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{3}$	=	0,006199	240684	509277	34375			
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$	=	0,005535	036325	454711	914062	5		
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{3}$	=	0,004981	532692	909240	722656	25		

Coefficientes terminorum seriei.

$$I : \sqrt{(1+x)} = 1 - \frac{1}{2}x + \frac{1}{2} \cdot \frac{1}{4}x^2 - \frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4}x^3 + \text{etc.}$$

$\frac{1}{2}$		=	0,5						
$\frac{1}{2} \cdot \frac{1}{4}$		=	0,375						
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{5}{6}$	=	0,3125						
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{5}{6} \cdot \frac{1}{3}$	=	0,273437	5					
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{5}{6} \cdot \frac{1}{6} \cdot \frac{1}{3}$	=	0,246093	75					
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{5}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$	=	0,225585	9375					
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{5}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{3}$	=	0,209472	65625					
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{5}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$	=	0,196380	615234	375				
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{5}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{3}$	=	0,185470	581054	6875				
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{5}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$	=	0,176197	052001	953125				
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{5}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{3}$	=	0,168188	095092	773437	5			
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{5}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$	=	0,161180	257797	241210	9375			
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{5}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{3}$	=	0,154981	017112	731933	59375			
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{5}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6}$	=	0,149445	980787	277221	679687	5		
$\frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$\frac{5}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{6} \cdot \frac{1}{3}$	=	0,144464	448094	367980	957031	25		

PRO NOTICIA.

STatus, in quo me collocaverant quidam Scientiarum Cultores hujus loci, fecerant mihi potestatem, ea, quæ 20 abhinc annis, et sic deinceps per intervalla, sine spe exequendi præmeditatus eram de legibus numerorum partim reconditis, partim ad formas solitarias restrictis, summa proprietatum sese excipientium ubertate ac generalitate vix non penitus consummandi. Quare ne ea, quæ in Præfatione Interpretis de *messe dississima* et *maturrima* etc. dicta sunt, præter modum asserta videantur, exponam hic præcipua objecta, partim recognita ab Eruditis, partim examini actu exposita. Hæc sunt:

1. *Clavis Factorum* pro assignandis Divisoribus numerorum in nullis Tabulis contentorum infra 24,600.000.

Illius Compendium usque ad 3,096.000 ad eam formam reductum est, ut 13 plagulis in quarto majori exhiberi possit: cum methodo, hæc subsidia in spatio unius plagulæ paucis horis ad terminos 1,536.000 unitibus ultiores, etc. extendendi.

2. *Fractiones omnium numerorum* intra 1 et $\frac{1}{200}$, in duo systemata digestæ, quorum *primum* servit datis *fractionibus communibus* immediate *reducendis* in *decimales*, ad quocumque loca decimalia.

Secundum sistit omnes hæc fractiones ordinatas *secundum incrementum valoris* sui, assignans ita *cujusvis fractionis decimalis fractionem naturalem* seu communem proximè æqualem, cujus denominator non excedit 200; et in alia consideratione omnes numerorum rationes intra hos terminos, etc.

Hæc Tabula prope 12300 terminos *bis* continens in 30 plagulis, reducto compendio intra 1 et $\frac{1}{20}$ ad 11 partem recidens, tribus adeo foliis comprehendi poterit; expositis simul *legibus Logarithmicis* fractionibus periodicis propriis, etc.

3. Quæ cum potissimum confecta sint numerorum naturalium juxta *se* positione, nata est *Tabula* quædam *triangularis*, quæ reductis omnibus fractionibus intra 1 et $\frac{1}{200}$ ad minimam expressionem, characteribus immutabilibus, summeque symmetricis, determinat innumeras leges et rationes numerorum successivas etc. uno intuitu. Unde nomen *Typi numerorum naturalium* nacta est. Quæ cum quovis termino abrumpi possit, omnis compendii capax est.

4. Hujus formæ (n.º 3.) natura et consideratio originem dedit instrumento cuidam simplicissimo pro *dimensionibus* ac *proportionibus Geometricis* etc. modo facillimo peragendis. Cujus in gratiam computata est *Micrometria Trianguli æquilateri*, serviens huic figuræ omnium figurarum simplicissimæ ac solidissimæ, aliisque Triangulis eodem modo, ut Trigonometria circulo; computatis lateribus in partibus bis millesimis, angulisque omni consideratione correspondentibus.

Hoc

Hoc quoque Opus vix implens quartam partem Tabularum trigonometricarum, ad decimam porro partem reductum, omnem, dimensionibus extremam accuratorem non repetentibus, conciliabit facilitatem.

5. Opus bipartitum continens in prima parte *Periodos generales completas* (id est pro omnibus terminis usque $p-1$) *omnium numerorum primorum* p infra 1000 ita expositas, ut ex quovis termino (2, 3 . . n . . $p-1$) conspecto immediate determinantur leges huic termino relate ad p suosque terminos socios (2, 3 . . n etc.) communes, etc.

In parte *secunda* exponuntur *fractiones speciales decimales periodice*, cuique numeratori infra p, pq (id est denominatorum tam primorum quam compositorum) propriæ, eo compendio, ut quævis nota decimalis respondens certæ stationi non nisi semel occurrat, cunctisque numeratoribus in eadem serie occurrentibus semel pro semper interserviat.

Quod compendium quamvis salva partium integritate porro contrahi nequeat, tamen restrictum ad unam alteramve centuriam ad X. aut XXV. partem voluminis recidet, quod nunc integrum 30 plagulas scriptas excedit.

Quibus legibus ad formam magis practicam jam redactis, supersederi poterit multis ambagibus, quibus ante definitionem legum periodorum (jam *universalium*) ad eas devenitum est; præsertim illis, quæ ad unicum *systema particulare decadicum* restrictæ 30 fere abhinc annis et adhuc postea ingentia volumina impleverunt.

Hæc, inquam, Opera pro usu Mathematicorum accommodatissimo parata sunt. Cumque singulorum compendia simul sumpta longe infra duo Alphabeta formæ descriptæ reprimi possint; nihil jam superest, quam ut votis majoribus definiatur, quo termino in quovis horum objectorum in summa facile 6 Alphabeta excedentium abrumpendum sit, ut hæc nova supellex, paucis immensa comprehendens, methodo magis naturali quam scholastica ex vinculis suis extorta, in manus omnium venire possit, qui qualitatum numericarum, expressionibus solitariis non obtemperantium, fontibus delectantur.

Fidelis Instituto ditorum Eruditorum, quod est prodesse, et meo proposito, quod erat, consummare quasdam meditationes meorum contemporaneorum operosissimas, *specialitate* sua exclusas ab usu magis oomnuni; non acquiesco, eas ea *generalitate*, cuius tantum *Numeri* (qua tales) capaces sunt, et eo *Compendio*, quod *Omnia* (terminis suis propria) continet, ad eam perduxisse *amplitudinem*, ut vel summa petentibus sufficiant: sed jam occupatus sum, formando compendia omnium generum, ut quam primum prodire possint in Publicum; aut si huic determinationi quidquam obstiterit, Copiæ fideles exhiberi possint scientiarum Cultoribus, eas sub iustis conditionibus desiderantibus.

C A T A L O G O

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|---|------|
| I. BREVES Instrucções aos Correspondentes da Academia sobre as remessas dos productos naturaes para formar hum Museo Nacional, <i>folheto</i> 8.º | 120 |
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| XVI. Documentos Arabicos da Historia Portugueza, copiados dos originaes da Torre do Tombo com permissoo de S. Magestade, e vertidos em Portuguez, por ordem da Academia, pelo seu Correspondente Fr. João de Sousa, 1. vol. 4.º | 480 |
| XVII. Observações sobre as principaes causas da decadencia dos Portuguezes na Asia, eferitas por Diogo de Couto em fórma de Dialogo, com o titulo de <i>Soldado Pratico</i> ; publicadas por ordem da Academia R. das Sciencias de Lisboa, por Antonio Caetano do Amaral, Socio Effectivo da mesma, 1. tom. in 8.º maior. | 480 |
| XVIII. Flora Cochinchinensis; sistens Plantas in Regno Cochinchina nascentes. Quibus accedunt alia observata in Sinenº Imperio, Africa Orientali, Indiæque locis variis, labore ac studio Joannis | |

de Loureiro Regiæ Scientiarum Academiæ Ulyssiponenſis Socii : Juſtu Acad. R. Scient. in lucem edita, 2. vol. in 4.º mai. - -	240
XIX. Synopſis Chronologica de Subſídios, ainda os mais raros, para a Hiſtoria, e Eſtudo critico da Legislação Portugueza; manda- da publicar pela Academia Real das Sciencias, e ordenada por Joſé Anaſtato de Figueiredo, Correoſpondente do Número da meſma Academia, 2. vol. 4.º - - - - -	180
XX. Tratado de Educação Phyſica para uſo da Nação Portugueza, publicado por ordem da Academia R. das Sciencias, por Fran- ciſco Joſé de Almeida, Correoſpondente da meſma, 1. vol. 4.º	36
XXI. Obras Poeticas de Pedro de Andrade Caminha, publicadas de ordem da Academia, 1. vol. 8.º - - - - -	60
XXII. Advertencias ſobre os abuſos, e legitimo uſo das Agoas Mi- neraes das Caldas da Rainha, publicadas de ordem da Academia Real das Sciencias, por Franciſco Tavares, Socio Livre da meſma Academia, folh. 4.º - - - - -	12
XXIII. Memorias de Litteratura Portugueza, 6. vol. 4.º - - - - -	480
XXIV. Fontes Proximas do Codigo Filippino, por Joaquim Joſé Ferreira Gordo, Correoſpondente da Academia, 1. vol. 4.º - -	400
XXV. Diccionario da Lingoa Portugueza, 1. vol. fol. mai. - - - -	480
XXVI. Compendio da Theorica dos Limites, ou Introducção ao Methodo das Fluxões por Franciſco de Borja Garção Stockler, Socio da Academia - - - - -	24
XXVII. Enſaio Económico ſobre o Comércio de Portugal, e ſuas Colónias, oferecido ao Principe do Brazil N. S., e publicáo de ordem da Academia Real das Sciencias pelo ſeu Sócio Joſé Joaquim da Cunha de Azerêdo Coutinho. - - - - -	48
XXVIII. Tratado de Agrimenſura por Eſtevão Cabral, Socio da Academia, em 8.º - - - - -	24
XXIX. Analyſe Chimica da Agoa das Caldas, por Guilherme Wi- thering, em Portuguez e Inglez. folh. 4.º - - - - -	24
XXX. Principios de Tactica Naval por Manoel do Eſpirito Santo Limpo, Correoſpondente do Numero da Academia 1. vol. 8.º -	48
XXXI. Memorias da Academia Real das Sciencias, 1. vol. fol. -	2000
XXXII. Memorias para a Hiſtoria da Capitania de S. Vicente, 1. vol. 4.º - - - - -	48
XXXIII. Obſervações Hiſtoricas e Criticas para fervirem de Mem- orias ao ſyſtema da Diplomatica Portugueza, por Joáo Pedro Ri- beiro, Socio da Academia, Part. 1. 4.º - - - - -	48
XXXIV. J. H. Lambert Supplementa Tabularum Logarithmicarum et Trigonometricarum. 1 vol. 4.º - - - - -	96

Eſtaõ debaixo do prelo as seguintes :

- Memorias de Mathematica e Phyſica da Academia Real das Sciencias, Tom. 2.º
- Taboadas Perpétuas Aſtronomicas para uſo da Navegação Portugueza.
- Memorias para ſervir á Hiſtoria das Nações Ultramarinas.
- Memorias Economicas Tom. 4.º

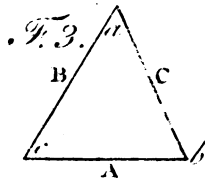
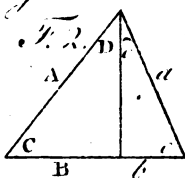
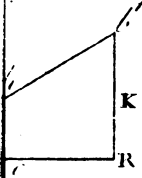
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tambem pelos meſmos preços.*

E R R A T A.

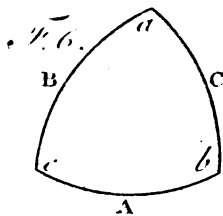
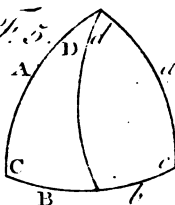
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tos, et in posterioribus tantum exemplaribus emendatos, ne calculum
turbent, respicere et prævis emendare juverit.

Pag.	16	Num.	21409	Ponatur	79	pro	97
	21	...	29377	...	29	...	19
	38	...	54931	...	163	...	167
	48	...	69443	...	113	...	173
	51	...	72299	...	197	...	97
	60	...	89179	...	257	...	157
	65	...	94973	...	73	...	37
	98	ponatur numerus prim. 78571 pro 78579.					
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	141	lin. 7	ponatur 109682 pro 109782.				
	148	secans 85°	ponatur 114737132 pro 114737312.				
	148	log. tang. 87°	ponatur 11.2806042 pro 11.2809042.				
	174	437 ²	ponatur 190969 pro 190961				
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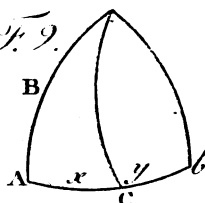
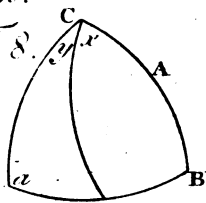
Ad paginam 130.



pag. 131.



pag. 132.



Ad pag. 170.



Fig. 11.

