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Imprint:

Director: Mag. Renate Plöchl

Deputy director: Mag. Julian Sagmeister

Owner of medium: Oberösterreichische Landesbibliothek

Publisher: Oberösterreichische Landesbibliothek, 4021 Linz, Schillerplatz 2

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PRÆCEPTUM 13.

Estigitur ratio facilima, & casu; Regulæ præmissæ primus. Numeri enim propositi, in sexagesimariâ quæsitæ Log-us duplicatur: Summa, ut Logarithmus, exhibet. ex Sexagesimariâ eâdem, quæsitum propositi Logistici Quadratum.

EXEMPLA.

Sit quadrandus 49'.53". ejus Logarithmus, 18499. Hic duplicatus 36998, dat 41'.27". quadratum de 49'.53".

Sit quadrandus 1°.23'.15". Hic in sexagesimariâ privatorum quæsitus, invenit Logarithmum -32773. Hujus duplum -65546. ut privativus, dat ex privativorum sexagesimariâ, 1°.55'.32". quadratum.

Supplementum 136. 140. 141.

Cur autem horum Quadratorum prius sit suâ radice minus, hoc majus, id explicatur alibi: & dixi aliqua in supplemento Chiliadis.

PRÆCEPTUM 14.

DE LOGISTICI NUMERI, UT QUADRATI, RADICE EXTRAHENDA, OPE HEPTACOSIADIS.

Ejus, qui pro Quadrato offertur, Logarithmum bipartire: Semissis iste ex sexagesimariâ exhibet quæsitam radicem.

Sint Quadrati 41'.27". & 1°.55'.32". Logarithmi ex sexag. 36998. -65546. Fac semisses 18499. -32773. Hi dant, ex sex: sinistra 49'.53". dext. 1°.23'.15".

DE MEDIO PROPORTIONALIS INTER DUOS LOGISTICOS INVENIENDO.

PRÆCEPTUM 15.

Si datorum alteruter fuerit 60'. sive 1°: tunc radix reliqui, quæsitæ, ut prius, est medium proportionale imperatum. Si verò neuter datorum fuerit 60. sive 1°: Logarithmos datorum ex Heptacosjade desumptos conjice in unam summam: hujus semissis ostendit ex sexagesimariis, quæsitum medium proportionalem.

Exempl. 1.

Sint Logistici 49'.53". Logarithmus 18499. Et 41'.27". Logarithmus. 36998. Summa -55497. Semissis 27749.

Hinc semissis quæsitus in Heptacosjade, ostendit in sexagesim. medium proportionalem, 45'.33".

Exempl. 2.

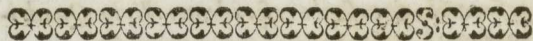
Sint Logistici 1°.23'.15". Log. -32773. Et 1. 55'.32". Log. -65546. Summa -98319. Ejus semissis -49160.

Hic dat ex Heptacos. 1°.38'.8". Medium proportionale inter 1°.23'.15" & 1°.55'.32".

Exempl. 3.

Sint Logistici 41'.27". Log. 36998. Et 1°.55'.32". Log. -65546. privat. Adde cossicæ fiet summa -28548. privat. Ejus semissis -14274.

Hic ut privativus, dat ex Sexag. dextra 1°.9'.13". medium propor. inter 41'.27" & 1°.55'.32".



CAPUT VII.

DE USIBUS HEPTACOSIADIS ALIIS.



UNT Usus aliqui Heptacosiadis hujus in operationibus Tabularibus, non ij præcipui; nec Logarithmorum, sed tantum columellarum, Logarithmos proxime circumstantium.

Primus eorum est, quod per dictas duas columellas junctas, antiquatur usus Tabulæ conversionis HORARUM & MINUTORUM in SCRUPULA DIEI; & vicissim, SCRUPULORUM DIEI in HORAS & MINUTA. De hoc usu etsi egi in supplemento Chiliadis capite IV. non erat tamen is Chiliadis, sed est hujus Heptacosiadis formæ proprius. Itaq; paucioribus nobis verbis hic est opus, quam in supplemento: adeoq; sufficit unum par exemplorum.

PRÆCEPTUM 16.

Quantitas Anni Tropici.

EXEMPLUM I.

Anni Tropici longitudo media supra Dies 365. est in his Tabulis ista

Hor. 5. 48' 57" 35" 47" 24" 56" 15" 0" 48"

Queritur hæc hora & minuta, quot sint Scrupula Diei. Cum agatur de Horis, adhibenda erit Quadrivicenaria. Dissolve ergo membra hujus longi Numeri in membra seu Numeros, contentos in Quadrivicenaria; & cum singulis dissoluti Numeri membris in Quadrivicenaria quæsitus, exscribe ex sexagesimaria sinistra singula membra respondentia, eodem situ & ordine; eaque vicissim in unam summam redige sic

Table with columns for Dissolutio Numeri, Horas significantis, and Scrupula Diei singulis membris. Values include 5.48, 0.56, 1.34, 1.46, 2.20, 1.24, 3.55, 0.56, 4.25, 0.14, 3.30, 1.0, 2.20, 0.48, 0.35, 2.30, 2.0.

14 32.23.59.28.32.20.37.32. 0x

Tanta est appendix Scrupularia ad dies 365. seu ad 6'. 5°. ad exprimendam longitudinem anni Tropici.

EXEMPLUM II.

Vicissim Anni siderii Longitudo Media est in Scrupulis Diei supra integros 365 ista.

15' 24" 8" 37" 42" 12"

Quantitas Anni Siderii.

Queritur tot Scrupula Diei quot faciant Horas. Cum dies dividi intelligatur in Scrupula 60. adhibenda erit Sexagesimaria. Dissolve ergo numerum hunc Logisticum in partes, contentas in Sexagesimaria.