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Thesaurus mathematum reseratus per algebr...; Algebra nova

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TABVLA
HVIVS
VNIVERSAE ALGEBRAE
FACILI METHODO
Adumbrata.

homogenearum
heterogenearum.
signa vel eadem, vt sunt magnitudines affirmatæ.
diuersa. negatæ.
linea ordinata, vt triangulum. quadrangulum vel
mordinata. triangulatum est multangulum.

parallelogrammum rectangulum quadratum, huius
idque est vel considerantur
trapezium. oblongum,
obliquangulum.

partes, quæ sunt diagonio interfectæ, dicuntur diagonaliæ
non interfectæ, vocantur complementa
affectiones, quæ sunt vel theoreticæ.
practicæ.

species, quibus perfectum, idque vel summæ differentiæ laterum.
distinguitur in ex summa & differentia mixtum.
imperfectum, idq; vel summæ differentiæ laterum, quorum requiritur perfectio.

linea.

gincubum Quadrato-quadratum, Quadrato-cubum, Quadrato-quadrato-quadratum, Quadrato-quadrato-cubum. Et sic deinceps.

simplicium, earumque vel homogenearum.
heterogenearum.
compositarum, habentium signa vel eadem, vt sunt magnitudines affirmatæ.
homogeneus integer, qui est vel diuersa. negatæ,
heterogeneus. fractus.

par estque 1. pariter par.
impar pariter impar.
impariter par.

sunt Rhabdologia. vel 2. perfectus. abundans.
Logorithmia. imperfectus, isque deficiens.
Tabula quadratica 3. primus. vtrique sunt vel inter se primi. in quibus consideratur communis diuisor maximus.
compositus. compositi. diuiduus minimus

& cubica, cuius spectatur fabrica;
vsus, qui est generalis.
specialis, versaturq; circa numeros proportionales in quadratos
cubo.
virgas stereometricas, quæ sunt Quadratæ.
Cubicæ.

TABVLA B

Exhibens

POTESTATVM SPECIOSARVM GENERATIONES,

à

Latere

BINOMIO.

a + b L.
a + b L.

aa + ab
ab + bb

aa + 2 ab + bb. Q
a + b

aaa + 2 aab + abb
aab + 2 abb + bbb

aaa + 3 aab + 3 abb + bbb. C.
a + b

aaaa + 3 aaab + 3 aabb + abbb
aaab + 3 aabb + 3 abbb + bbbb

aaaa + 4 aaab + 6 aabb + 4 abbb + bbbb. QQ.
a + b

aaaaa + 4 aaaab + 6 aaabb + 4 aabbb + abbbb
aaaab + 4 aaabb + 6 aabbb + 4 abbbb + bbbbb

aaaaa + 5 aaaab + 10 aaabb + 10 aabbb + 5 abbbb + bbbbb. QC.
a + b

aaaaaa + 5 aaaaab + 10 aaaabb + 10 aabbb + 5 abbbb + abbbbb
aaaaab + 5 aaaabb + 10 aabbb + 10 abbbb + 5 abbbbb + bbbbbb

aaaaaa + 6 aaaaab + 15 aaaabb + 20 aaabbb + 15 aabbbb + 6 abbbbb + bbbbbb. CC.
a + b

aaaaaaa + 6 aaaaaab + 15 aaaaabb + 20 aaaabbb + 15 aabbbbb + 6 abbbbbb + abbbbbb
aaaaaab + 6 aaaaabb + 15 aaaabbb + 20 aaabbbb + 15 aabbbbb + 6 abbbbbb + bbbbbbb

aaaaaaa + 7 aaaaaab + 21 aaaaabb + 35 aaaabbb + 35 aaabbbb + 21 aabbbbb + 7 abbbbbb + bbbbbbb. QQC.
a + b

aaaaaaaa + 7 aaaaaaab + 21 aaaaaabb + 35 aaaabbbb + 35 aaabbbbb + 21 aabbbbbb + 7 abbbbbbb + bbbbbbbb
aaaaaaab + 7 aaaaaabb + 21 aaaabbbb + 35 aaabbbbb + 35 aabbbbbb + 21 abbbbbbb + 7 bbbbbbbb

aaaaaaaa + 8 aaaaaaab + 28 aaaaaabb + 56 aaaabbbb + 70 aaabbbbb + 56 aabbbbbb + 28 abbbbbbb + 8 bbbbbbbb. QCC.
a + b

aaaaaaaaa + 8 aaaaaaaab + 28 aaaaaaabb + 56 aaaaabbbb + 70 aaabbbbbb + 56 aabbbbbbb + 28 abbbbbbbb + 8 bbbbbbbbb
aaaaaaaab + 8 aaaaaaabb + 28 aaaaabbbb + 56 aaaabbbbb + 70 aabbbbbbb + 56 abbbbbbbb + 28 bbbbbbbbb

aaaaaaaaa + 9 aaaaaaaab + 36 aaaaaaabb + 84 aaaaabbbb + 126 aaaabbbbb + 126 aaabbbbbb + 84 aabbbbbbb + 36 abbbbbbbb + 9 bbbbbbbbb. C. C. C.
a + b

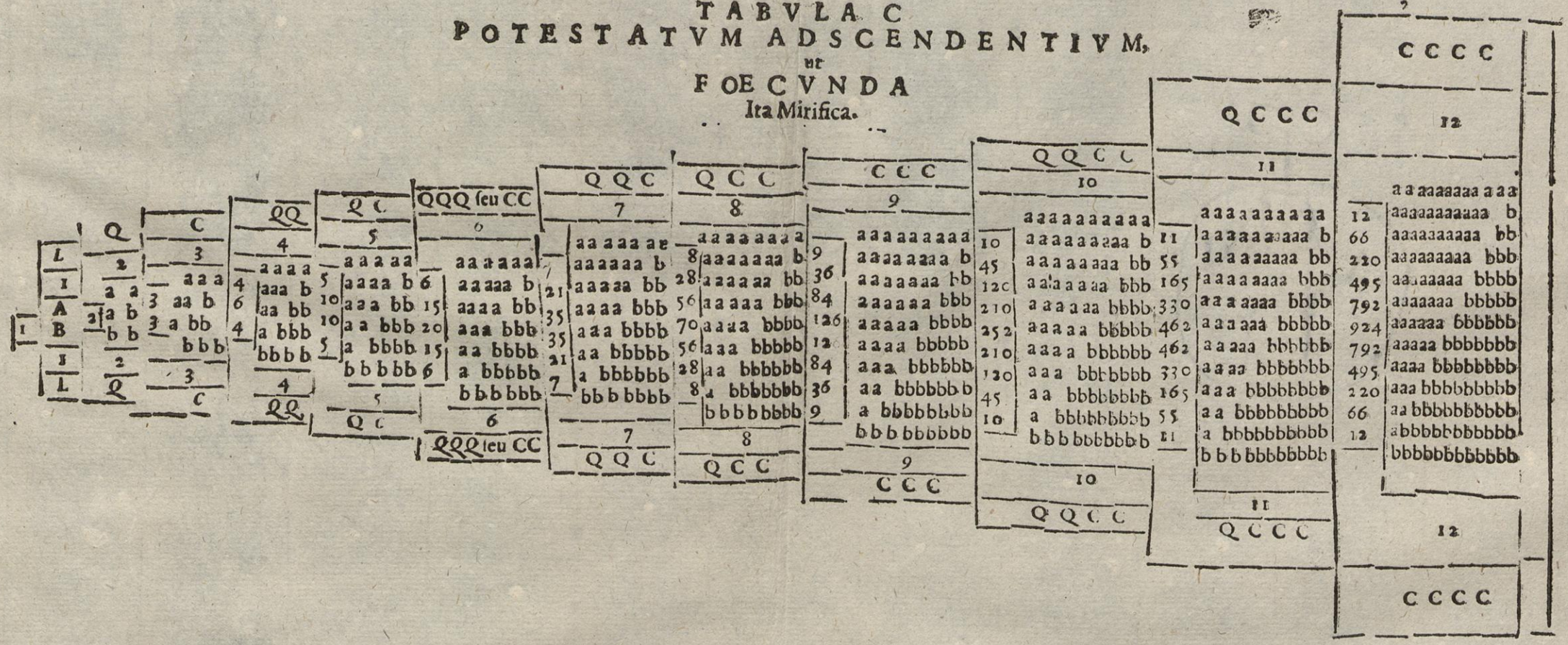
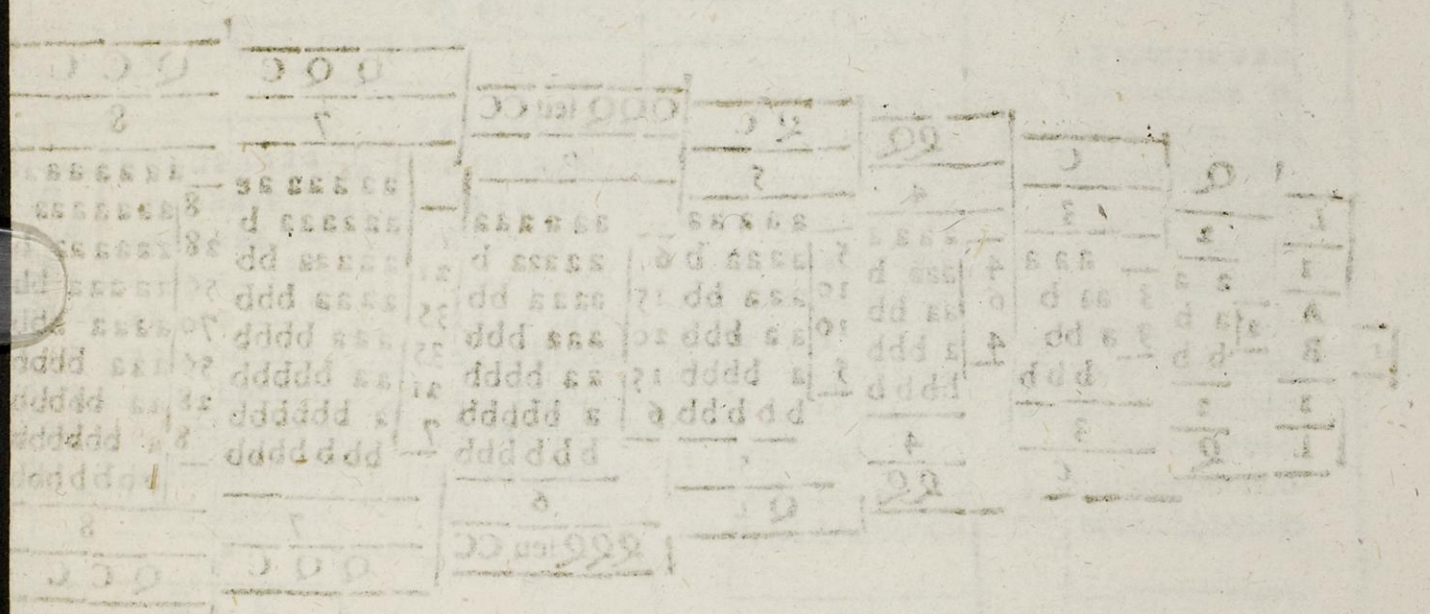
aaaaaaaaaa + 9 aaaaaaaaab + 36 aaaaaaaabb + 84 aaaaaabbbb + 126 aaaaabbbbb + 126 aaaabbbbbb + 84 aaabbbbbbb + 36 aabbbbbbbb + 9 abbbbbbbbb + bbbbbbbbbb
aaaaaaaaab + 9 aaaaaaaabb + 36 aaaaaabbbb + 84 aaaaabbbbb + 126 aaaabbbbbb + 126 aaabbbbbbb + 84 aabbbbbbbb + 36 abbbbbbbbb + 9 bbbbbbbbbb

aaaaaaaaaa + 10 aaaaaaaaab + 45 aaaaaaaabb + 120 aaaaaabbbb + 210 aaaaabbbbb + 252 aaaaabbbbbb + 210 aaaabbbbbbb + 120 aaabbbbbbbb + 45 aabbbbbbbbb + 10 abbbbbbbbbb + bbbbbbbbbb. QQCC.
a + b

aaaaaaaaaaa + 10 aaaaaaaaaab + 45 aaaaaaaaabb + 120 aaaaaaaabbbb + 210 aaaaaaabbbbb + 252 aaaaaabbbbbb + 210 aaaaabbbbbbb + 120 aaaabbbbbbbb + 45 aaabbbbbbbbb + 10 aabbbbbbbbbb + abbbbbbbbbb
aaaaaaaaaab + 10 aaaaaaaaabb + 45 aaaaaaaabbbb + 120 aaaaaaabbbbb + 210 aaaaaabbbbbb + 252 aaaaabbbbbbb + 210 aaaabbbbbbbb + 120 aaabbbbbbbbb + 45 aabbbbbbbbbb + 10 abbbbbbbbbbb + bbbbbbbbbbb

aaaaaaaaaaa + 11 aaaaaaaaaab + 55 aaaaaaaaabb + 165 aaaaaaaabbbb + 330 aaaaaaabbbbb + 462 aaaaaabbbbbb + 462 aaaaabbbbbbb + 330 aaaabbbbbbbb + 165 aaabbbbbbbbb + 55 aabbbbbbbbbb + 11 abbbbbbbbbbb + bbbbbbbbbbb. QCCC.
a + b

aaaaaaaaaaa + 11 aaaaaaaaaaab + 55 aaaaaaaaaabb + 165 aaaaaaaaabbbb + 330 aaaaaaaabbbbb + 462 aaaaaaabbbbbb + 462 aaaaaabbbbbbb + 330 aaaaabbbbbbbb + 165 aaaabbbbbbbbb + 55 aaabbbbbbbbbb + 11 aabbbbbbbbbbb + abbbbbbbbbbb
aaaaaaaaaaab + 11 aaaaaaaaaabb + 55 aaaaaaaaabbbb + 165 aaaaaaaabbbbb + 330 aaaaaaabbbbbb + 462 aaaaaabbbbbbb + 462 aaaaabbbbbbbb + 330 aaaabbbbbbbbb + 165 aaabbbbbbbbbb + 55 aabbbbbbbbbbb + 11 abbbbbbbbbbbb + bbbbbbbbbbbb

aaaaaaaaaaaa + 12 aaaaaaaaaaab + 66 aaaaaaaaaabb + 220 aaaaaaaaabbbb + 495 aaaaaaaabbbbb + 792 aaaaaaabbbbbb + 924 aaaaaabbbbbbb + 792 aaaaabbbbbbbb + 495 aaaabbbbbbbbb + 220 aaabbbbbbbbbb + 66 aabbbbbbbbbbb + 12 abbbbbbbbbbbb + bbbbbbbbbbbb. CCCC.

TABVLA C
POTESTATVM ADSCENDENTIVM,
ut
FOECVNDA
Ita Mirifica.