

varied in *terms* or *signs*. After the *Synthesis* our *Author* shews the *analysis* or *method* by which he found this Rule, viz. a *Parabola* being described, and a *point* in its *plain* given in *position*, he expresses 2 ways, the *radius* of a *Circle* passing through the *Vertex* of any *diameter*, i. e. by position of the given *Center*, and application of the forefaid *propriety* to express the *ratio* of the *radius* to the given lines of the *parabola*: So having an *Equation* of 4 *dimensions*, and rejecting equal on both sides, he depresses it to a *Cubic*, but adjoining to it a quantity for the *Homogene* of the comparison, the *Equation* subsists in a *Biquadratic*, having all its *terms*, if the *Circle* be supposed to pass not thro the *vertex* of the *diameter*, but thro a *point* which being joyn'd with the *Vertex* and *Center* may terminate a right angled triangle.

This *Equation* he compares with another like it and equal to it; then by *equating* the *Coefficients* of these 2 *Equations* he presently discovers the *central* Rule; whose universal extent appears in *Biquadratic* *Equations* affected under all their *Parodic* degrees; for all the other *cases* where any *terms* are wanting, are but *Corollarys* or more compendious *Constructions* deriv'd from the general rule. So that the invention of the rule seems as much due to the last *Equation* of the *Coefficients*, as to the forefaid *propriety*, which is demonstrated by *Archimedes* in the *Section* of a *parabolic* *Conoid* by a *plane* parallel to the *axis*, and is particularly used by *Slusius* in his *Analytics*, who thereby constructs a *Biquadratic* *Equation* keeping all its *terms*. But then the *Analysis* of *Slusius* by breaking the *Equation* into 2 others to find 2 *places* is very different from that whereby our *Author* found his *central* rule; then which nothing can be expected more easie, simple, or universal; seeing any *Parabola* being once for all described, will give all the roots true and false, of any *Equation* without reduction or any alteration.

ERRATUM. p. 518. line the last, read Nubigenum.

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