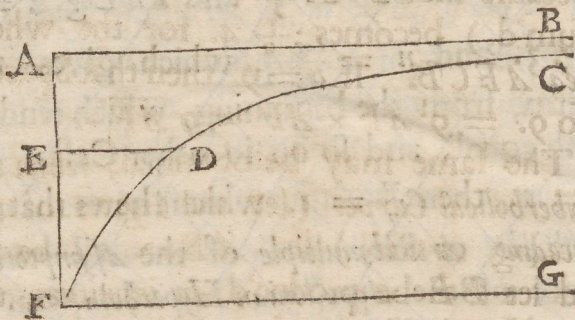


60 Philosophical Principles

It is requir'd to find the Nature of a Curve, *FDC*, which shall with the *Asymptote AB*,



contain an interminated Space, *ABCD F* equal to *AB*, multiply'd into any finite Number whatsoever, or equal to a finite Space, represented by any finite given Number, let this finite Number be call'd *a*, the ordinate *ED* be call'd *y*, the *Absciss* *EA*, *x*. and let *lx* signify the *Logarithm* of *x*, then the *Equation* of the Curve shall be $y = x^{\frac{1}{a}-1} lx$. for Exemple, let *a* be equal to 4. then the *Equation* becomes $y = x^{-\frac{3}{4}} lx$. and the *Area* is $2 x^{\frac{1}{4}} lx - 4 x^{\frac{1}{4}}$ where putting *x* = 1, and consequently *lx* = 0.

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