An Elementary Treatise on Variable Quantities; In Two Parts: The Direct and Inverse (Paperback)

By Hiram Cook

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1921 Excerpt: .will be 2a ir, which is the measuring arc for the first revolution of PC; therefore, since PA or a is then the radius vector, a = a 2a n 1 whence a =. 2ir Substituting this value of a in (3) gives the equation of the spiral of Archimedes. When n is equal to one half, (1) becomes r = av or r2 = a2v, which is the equation of the parabolic spiral, being of the same form as that of the parabola; for substituting y for r, y/(2p) for a, and x for v gives y2 = 2px. (4) With 2p as radius draw the circle ABC, divide its circumference into any number of equal parts, as six, and draw through its center P, the divisional lines DV, EE , FF . With-(2p + 1), -(2p + 2), i (2 + 3), and-(2p +...

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