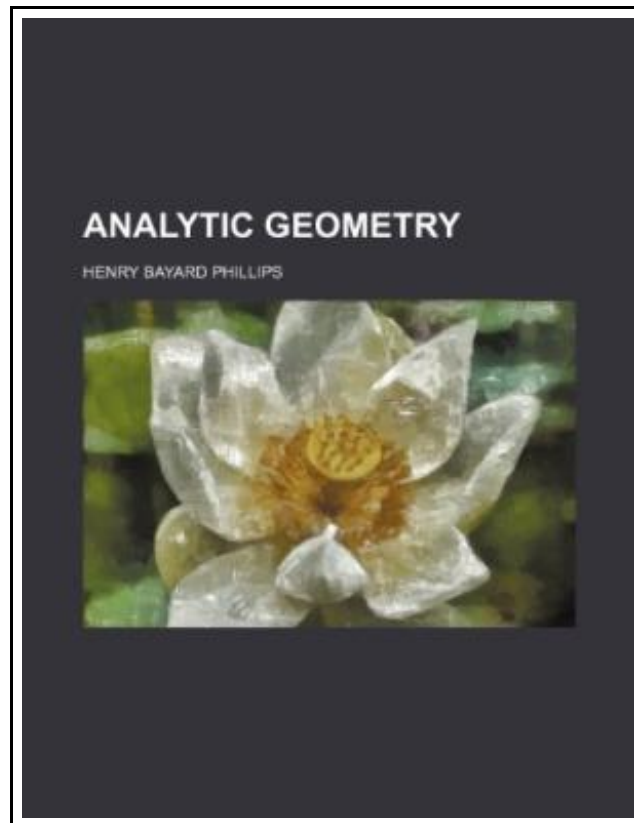


# Analytic Geometry



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## ANALYTIC GEOMETRY



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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. 1915 edition. Excerpt: .1)  $(y-2)^2 - 3$ , but the locus has one real point. Irreducible Equations.--It will be shown later (Art. 59) that the locus of an irreducible equation of the second degree is an ellipse, parabola, hyperbola or entirely imaginary. A circle is considered as an ellipse with axes of equal length. By the second degree part of an equation of the second degree is meant the part  $Ax^2 + Bxy + Cy^2$  (346) containing the terms of second degree. We shall now show how to determine by inspection of this second degree part whether a given second degree equation represents an ellipse, parabola or hyperbola. An ellipse whose axes are the lines  $Aa + By + C = 0$ ,  $A + By + C = 0$  is represented by the equation  $\frac{1}{a^2} \frac{A^2}{V^2} + \frac{B^2}{V^2} + \frac{C^2}{V^2} = \frac{1}{a^2} \frac{A^2}{V^2} + \frac{B^2}{V^2} + \frac{C^2}{V^2}$  (346)  $y = 1$  a2 VJJrB / VA22 + Bi I The second degree part of this equation is  $m (Ai^2 + fliy)^2 (A2x + BiVy 1; o2 (Ai2 + Bi2) + 62 (A/ + 22)$ . Since this is a sum of squares it has imaginary factors. If the axis of a parabola is  $Aix + Biy + = ()$ , and the line through the vertex perpendicular to the axis is  $A2x + Bty + C2 = 0$ , the equation of the curve is  $Mg + By + CA2 = /Aa + Bw + C, VAI2 + Bi2 / I VAI + Bi I$  The second...



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