



A Treatise on Plane Co-Ordinate Geometry Volume 1; Or, the Application of the Method of Co-Ordinates to the Solution of Problems in Plane Geometry (Paperback)

By Matthew O Brien

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. 1844 Excerpt: .(6) represents either two parallel lines or no locus. Hence it appears that the general equation of the second degree wanting the term $2Bxy$ represents an ellipse, a parabola, a hyperbola, two right lines, one right line, or an isolated point; except in certain cases where it does not represent any locus. The following proposition will complete the discussion of the general equation. Prop. XLI. 187. To shew that the term $2Bxy$ may be made to disappear from the general equation of the second degree by turning the axes of co-ordinates through a certain angle. If, in the general equation $Ax^2 + 2Bxy + 2Dx + 2Ey + F = 0$. (1), we write $x \cos \theta - y \sin \theta$ in place of x , and $x \sin \theta + y \cos \theta$ in place of y , we turn the axes through the angle θ ...

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