



## An Elementary Manual of Coordinate Geometry and Conic Sections (Paperback)

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By James White

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. 1878 Excerpt: . point, and produced to meet the tangent to the ellipse at that point, the locus of their intersection will be a straight line. Let T be any point on the ellipse, and TP the tangent at it, P being its point of intersection with FP, the perpendicular to FT at F. Produce FT, and make  $TM = TF$ ; and join PM. The triangles PTF and PTM are manifestly equal in every respect (Euc, Bk. I., Prop. 4); consequently  $PM = PF$ , and the angle  $PMT = \text{the angle } PFT$ , and is a right angle. Therefore  $F P \cdot PM^2 (= PP \cdot FP) = F H = (F T + FT)^2 = 4a^2$ . Since the difference of the squares of the distances of the point P from the points F and F is constant, the locus of P must be a straight line perpendicular to the line joining FF ....



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