



## Geometrical Analysis, or the Construction and Solution of Various Geometrical Problems from Analysis, by Geometrical, Algebra, and the Dieferential Calculus Also, the Ceometrical Construction of Algebraic Equations, and a Mode of Constructing Curves

By Benjamin Hallowell



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. 1872 Excerpt: . Demonstration by geometry.--Join GL, AL, and GG, and let fall on BL the perpendicular GH; then  $AG^2 + GL^2 = AL^2 = AE^2 + BE^2 + PG^2 + P^2 = AB^2 + BE^2 + 22 = AB^2 + BE^2 + OL^2 - J - BI^2$ . Taking  $GL^2$  from the first and last of these equals, we have  $AG^2 = BI^2$  or  $AG = BI$ . Q. E. D. Calculation.--We have  $EL = \frac{EB^2 + BF^2}{EB^2 + AW}$ ,  $BL = BE - EL$ ,  $GG = GL = BL$ ,  $GH = V OG^2 - GH^2$ ,  $OL - GH = HL = AE$ ,  $EG = GB - BE = GL - BE$ ,  $FG = EH = EG + GH$ , and  $GG = GF + FG$ ,  $GL = AB = \sqrt{BE^2 + AE^2}$ . Limit.--The line AG may be taken any length. Problem IY.--In a right-angled triangle are given the hypotenuse, and the side of the inscribed square, to determine the triangle. Analysis by algebra.--Let ABG represent the required triangle of which the hypotenuse AG and the inscribed square BGFE are given. Draw GL perpendicular to AG, meeting EF,...



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