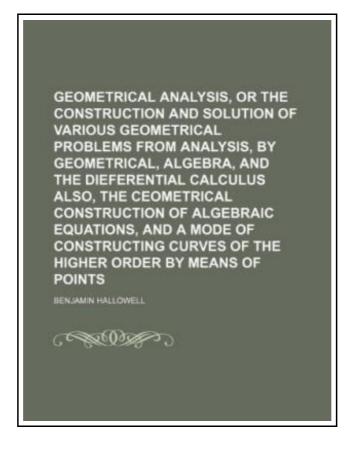
Geometrical Analysis, or the Construction and Solution of Various Geometrical Problems from Analysis, by Geometrical, Algebra, and the Dieferential Calculus Also, the Ceometrical Construction of Algebraic Equations, and a Mode of Constructing Curves



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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



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 AG2 + GL2 = AL2=AE2 +.# 2 = #2 + P= A#2 + # 2 + 22 = AB2 + I2== OL2-J-BI2. Taking GL2 from the first and last of these equals, we have A G2 = BI27 or A G = J57. Q. E. D. Calculation .--WehveELEI=/EB2+BF=/EB2+AW, BL = BE--EL, GG=GL = BL, GH=V OG2--GH2, OL--GH=HL = AE, EG=GB--BE=GL--BE, FG = EH = EG+GH, and GG=GF+FG, GL = AB = Vbe2 + AE2. Limit.--The line A G may be taken any length. Problem IY.--In a right-angled triangle are given the hypothenuse, and the side of the inscribed square, to determine the triangle. Analysis by algebra.--Let ABG represent the required triangle of which the hypothenuse AG and the inscribed square BGFE are given. Draw GL perpendicular to AG, meeting EF, produced, in L, and let fall the perpendicular GH, which will be equal to GF or EF; then (IY. 21) the triangles GHL and EAF are similar and equal, having GL = AF and HL = AE. Now, jput AG = b, EF = a, EL = x, and GL--y = AF. In similar triangles AFE and GFL, we have AF (y): FE (a):: FL (x--a): FG (b--y). Where fore by--y2=zax--a2, or--26?/ + 2y2 =--2ax + 2a2. Also, FL2--EG2 + GL2; that is, (x--a)2 = (6--y)2-f y2, or x2--2aa? + a2--62--2 -f-2?/2 = (from above) b2--2ax--2a2. From which wehave...

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