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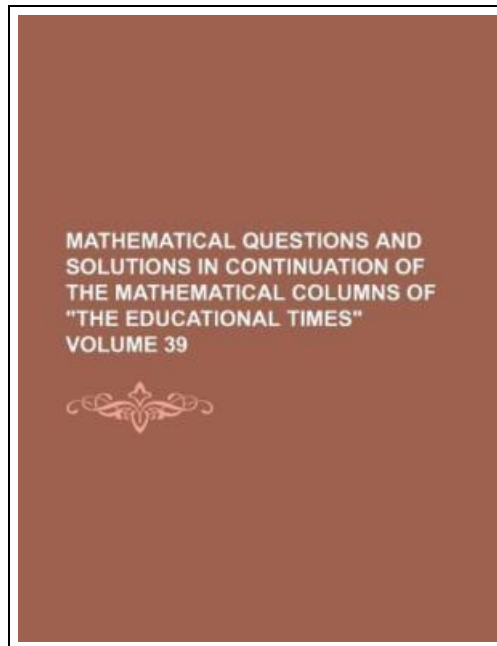
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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1883 Excerpt: . (By Professor Hudson, M.A.)--Prove (1) that, if the curve r = a + b cos fl have a point of inflexion, a must lie between b and lb; and (2) trace the change in form of the curve, as a changes from 0 to 2A. 7197. (By the Editor)--With two given sides, construct a triangle such that the square of the sine of half the angle contained by the sides may be equal to the squares of the sines of the other two semi-angles. II. Solution by M. Collins, B.A.; J. O regan; and others. The triangle is of the form in part (3) of Quest. 6287. Thus, if e be the third or required side, Q the centre, r the radius of the inscribed circle, and O the centre of the circumscribed circle, we have r (a + b + c) = ah sin C, which differentiated gives (since r is a maximum, and therefore dr = 0) rdc = ab cos C. dG; also c2 = a2 + As--lab cos C; whence, differentiating, c. d = ab sin C. dC; and from these equations we obtain r = ccot C = 2BD. cot BOD-2OD; hence DE = DE , therefore E F = 2OG, that is, r = radius of circle escribed to side c = 2R = diameter of circumscribed circle. abe, . . - .- -, ., 4A2 Now E = therefore abe(s-c) = 2a2=2a(---) (s-a) (3-e), and as e=2s--a--b, we...

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