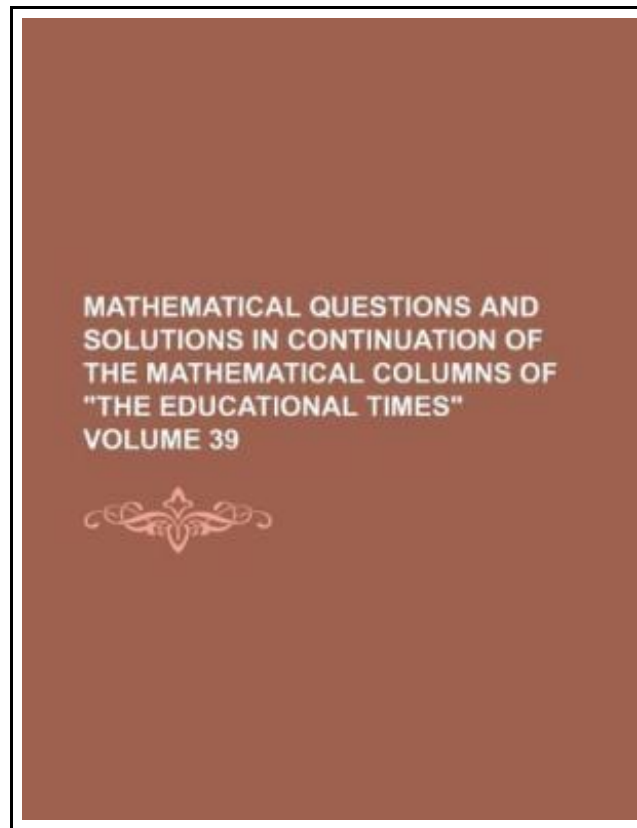


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Rarebookclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned 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 $r = a + b \cos \theta$ 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 $c^2 = a^2 + b^2 - 2ab \cos C$; whence, differentiating, $c \cdot d = ab \sin C \cdot dC$; and from these equations we obtain $r = c \cot C = 2BD \cdot \cot BOD = 2OD$; hence $DE = DE$, therefore $E F = 2OG$, that is, $r =$ radius of circle escribed to side $c = 2R =$ diameter of circumscribed circle. $abe, \dots, \dots, \dots, 4A2$ Now $E =$ therefore $abe(s-c) = 2a^2 = 2a(s-a)(3-e)$, and as $e = 2s - a - b$, we...



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