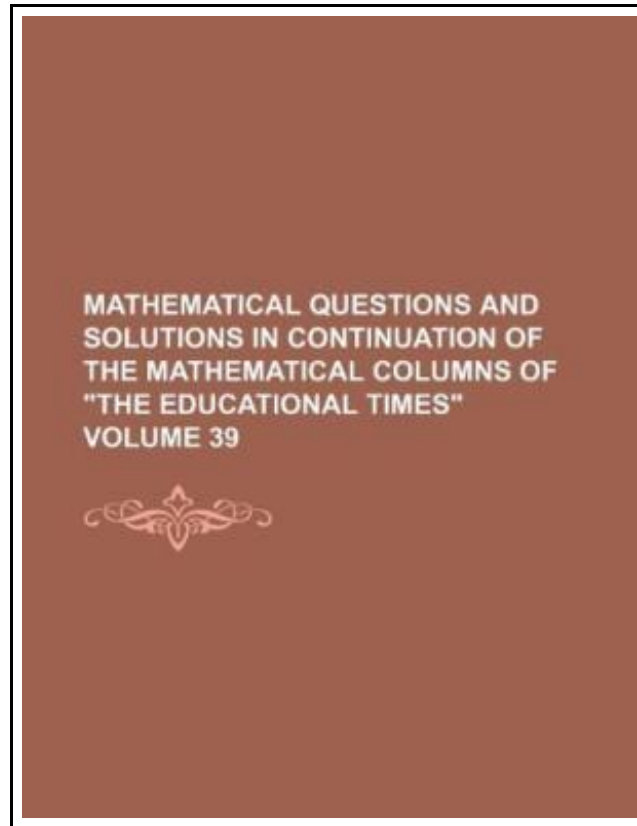


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free 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  $r = a + b \cos \phi$  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  $c^2 = a^2 + As--lab \cos C$ ; 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  $abe(s-c) = 2a^2=2a(---) (s-a) (3-e)$ , and as  $e=2s--a--b$ , we...

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