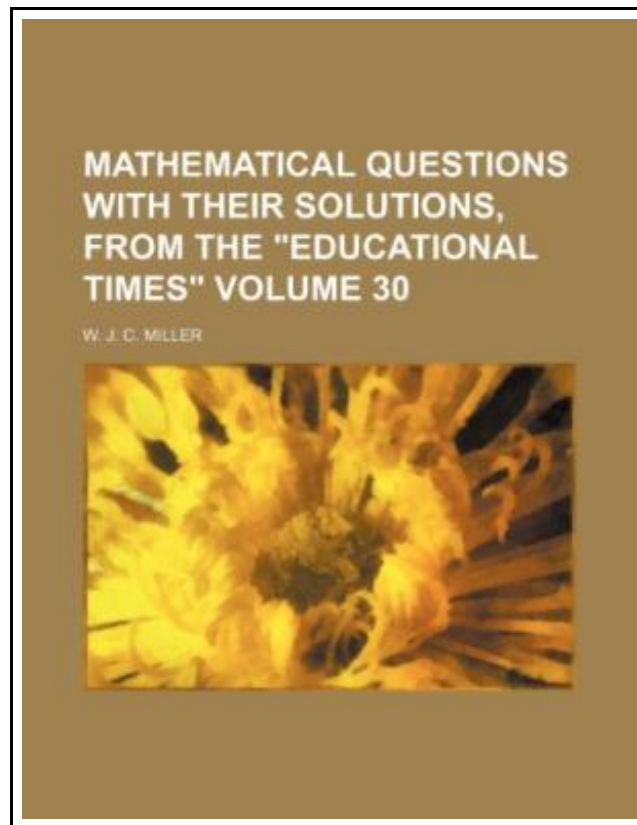


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Not Avail, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1881 Excerpt:  $2PE$  (according to the figure). We have therefore to prove that  $PQ = 2PE$ . 6253. (By B. Williamson, F.R.S.)--If two straight lines in a moving plane area always touch the involutes to two circles, prove that any other straight line in the moving area will always touch the involute to a circle. Solution by W. H. Besant, M.A., F.R.S. If  $o$ ,  $O$ ,  $7$  be the perpendiculars from any fixed point on the sides  $a$ ,  $b$ ,  $e$  of the triangle formed by the lines, then  $aa + .40 + ey$  is constant; therefore, since  $p +$  is the radius of curvature of the envelop of a straight line,  $a^2p + 4p^2 + cp^3$  is constant. The intrinsic equation of an involute of a circle is of the form  $s - cq + dp + e$ , and it follows that, if  $jii$  and  $p$  are each of the form  $cJi + d$ ,  $pb$  is of the same form. The method of this solution, which is due to Mr. Ferrers, is given in my Notes on Roulettes and Glissettes. Another solution is given in Reprint, Vol. XXXIII., p. 67. 5527. (By W. S. B. Woolhouse, F.R.A.S.)--Determine, by a simple construction, the size of the equilateral triangle from or into which a triangle can be orthogonally projected. Solution by C. Leijdesdorf, M.A. Let  $ABC$  be a triangle,  $G$  its centre of gravity; and let  $BC$  be bisected at  $A$  and trisected at  $D$  and  $E$ ; join  $G$  to  $B$ ,  $D$ ,  $E$ ,  $C$ . In...



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