



## Mathematical Questions and Solutions in Continuation of the Mathematical Columns of the Educational Times Volume 67 (Paperback)

By Books Group

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. 1897 Excerpt: .10857 yards. Find the distance of the rock from each of the headlands. 13361. (W. C. Stanham.)--Construct (a) a right-angled triangle having its angular points on the given rectangular hyperbola  $x^2 - y^2 = c^2$  (rectangular coordinates), and its centroid at the point  $(\frac{1}{2}a \cos \theta, \frac{1}{2}a \tan \theta)$ ,  $\theta$  being any given angle; and show (4) that, both in this case and in the case in which the centroid is to be at the point  $(\frac{1}{2}a \sec \theta, \frac{1}{2}a \cot \theta)$ , the determination of the coordinates of the angular points of one such triangle will not necessitate the solution of an equation of a degree higher than the second. Solution by the Proposer, Professor Radhakrishnan, and others. Let  $G$  be the point  $(\frac{1}{2}a \cos \theta, \frac{1}{2}a \tan \theta)$ , or  $(x, y)$ , and let  $CG = r$  and  $\angle GCA = 2\theta$ . (a) Draw  $CP$  to the curve, bisecting  $GCA$ ;...



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