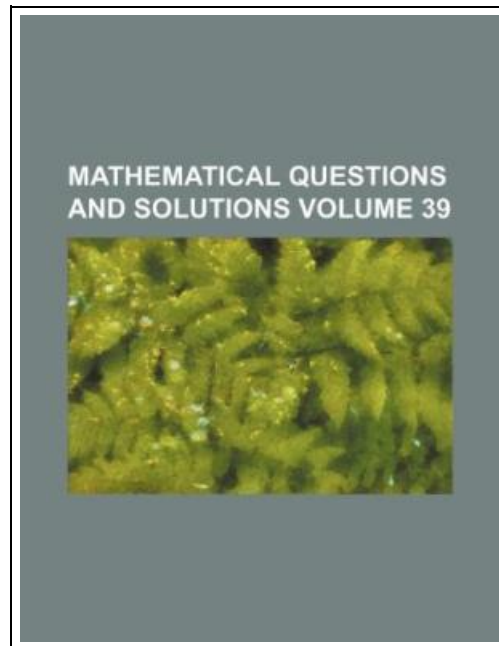


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1883 Excerpt: . by Dr. Curtis; E. Ruttee; and others. This, which is known as Alhazen s problem, admits of the following geometrical solution: --If C he the centre of the circle and a its radius, take E and F so that AC. CE = a = BC. CF; draw the hyperbola-locus of vertex of all triangles whose common base is EF, and the difference of whose base angles = Z CEF CFE; let H be any one of the four points in which this hyperbola cuts the circle; then, as ZEFH-FEH = CEF-CFE, we have Z CEH = CFH, and in the triangles ACH, HCE, we have AC: CH = CH: CE, therefore Z AHC = CEH; similarly Z BHC = CFH, and therefore Z AHC = BHC, and Z AHK = BHK, therefore H is one of the required points. 6924. (By Professor Seitz, M.A.)--A triangle is formed by joining three random points within a sphere; prove that the average area (1) of the triangle is  $\frac{1}{2} \pi r^2$ , and (2) of its inscribed circle is  $(\frac{1}{2} \pi r^2) \log 2$ . 6917. (By J. L. Mokenzie, B.A.)--A straight line XY outs the tangents at two given poiuts A and B on a given circle in L and M respec TOL. XXXIX. H tively, and the circle itself in C and D; then (1) if the circles ABL, ABM cut XY in a and  $\frac{1}{3}$  respectively, prove Ca = D/3; and (2) if the circles passing through L and lf, and touching...



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