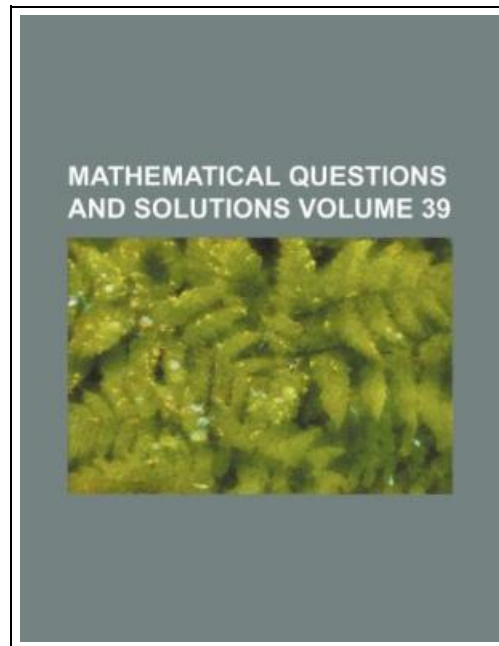


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free 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 be 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 =  $\angle CEF - \angle CFE$ ; let H be any one of the four points in which this hyperbola cuts the circle; then, as  $\angle ZEFH - \angle FEH = \angle CEF - \angle CFE$ , we have  $\angle ZCEH = \angle CFH$ , and in the triangles ACH, HCE, we have AC: CH = CH: CE, therefore  $\angle ZACH = \angle CEH$ ; similarly  $\angle ZBCH = \angle CFH$ , and therefore  $\angle ZACH = \angle BCH$ , and  $\angle ZAHK = \angle BHK$ , 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. Mckenzie, B.A.)--A straight line XY cuts the tangents at two given points A and B on a given circle in L and M respectively. H is the centre of the circle itself in C and D; then (1) if the circles ABL, ABM cut XY in a and b respectively, prove  $\frac{Ca}{D} = \frac{D}{3}$ ; and (2) if the circles passing through L and M, and touching...



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