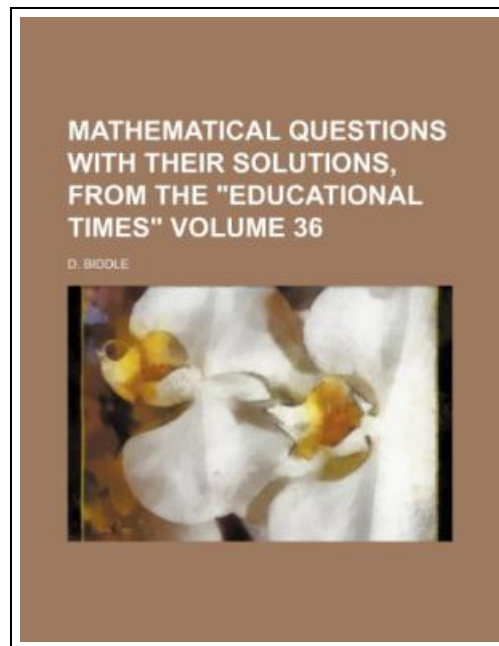


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1883 Excerpt: .AABC when its inscribed circle (or its radius QE) is a maximum. 6864. (By Professor Hudson, M.A.)--If I, O be the centres of the inscribed and circumscribed circles of a spherical triangle, r, R their radii, and $2a = a + b + c$, prove that $2 \sin a \cos I = (\sin a + \sin i + \sin c) \cos r \cos R$. 6878. (By T. C. Simmons, M.A.)--If A, B are two points in the plane of a given circle; give a geometrical construction for finding the position of a point P on the circumference, such that the lines AP, BP make equal angles with the tangent at P. Solution by Dr. Curtis; E. Euttee; and others. This, which is known as Alrazen'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 ZEFH-FEH-CEF-CFE, we have $\angle CEH = \angle CFH$, and in the triangles ACH, HCE, we have AC: CH = CH: CE, therefore $\angle AHC = \angle CEH$; similarly $\angle BHC = \angle CFH$, and therefore $\angle AHC = \angle BHC$, and $\angle AHK = \angle BHK$, therefore H is one of...



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