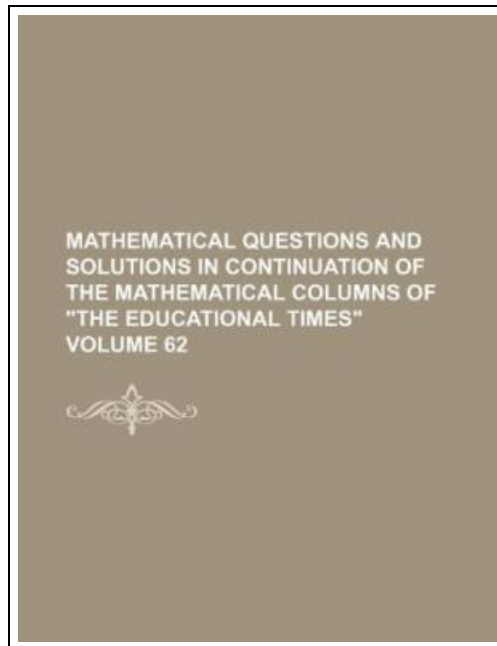


## Mathematical Questions and Solutions in Continuation of the Mathematical Columns of The Educational Times Volume 62



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*This book is fantastic. This is certainly for all those who statte there had not been a really worth reading. It is extremely difficult to leave it before concluding, once you begin to read the book.*

*(Prof. Dale Fahey MD)*

## MATHEMATICAL QUESTIONS AND SOLUTIONS IN CONTINUATION OF THE MATHEMATICAL COLUMNS OF THE EDUCATIONAL TIMES VOLUME 62



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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. 1895 Excerpt: .Professor Bhattacharya; and others. Taking OP for initial line, let  $POQ = 8$ ,  $QOR = p$ ; then the sides of the triangle, and area  $S$ , can be immediately obtained. We require the average value then 12284. (R-Chartres.)--BC is a fixed chord of a circle subtending an angle of  $120^\circ$  at the centre O: show that (1) for any position of A on the larger arc the ortho-centre, in-centre, circum-centre, Fermat's point, and another point Z of the triangle ABC lie on the arc BOC; also find (2) Z, the isogonal conjugate of Z, and the value of  $2(ZA) \cdot 2(ZA)$ , without restricting A to the circle; and (3) the locus of the centre of the nine-point circle in (1), and, if the involute of this curve roll on a straight line, find the locus of the mid-point of BC. Solution by Professor Longchamps; the Proposer; and others. BC subtends at the ortho-centre, in-centre, circum-centre, Fermat's point F, and its isogonal conjugate Z,  $180-A$ ,  $90 + iA$ ,  $2A$ ,  $120$ , and  $A + 60$ , each of which =  $120$ , if  $A = 60$ . By the similar triangles AZB, AKC,  $ZA/c = 4/AK$ , or  $ZA \cdot s(FA) = 4e$ ;  $-S(ZA) \cdot 2(FA) = 2(-4)$ . Since the radius of the nine-point circle =  $R = OD = \text{constant}$ , therefore the locus of its centre is the circle having ODH for diameter. If the involute of this circle roll on a straight line LM, then LM equals sub-normal of the roulette described...

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