



## Mathematical Questions with Their Solutions Volume 7-9; From the Educational Times. (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. 1867 Excerpt: .are the mid-points of the sides of ABC. Hence we have-- =or i-i =-. 2 4 2 To find m<sub>2</sub>; for the moment suppose P and R fixed whilst Q travels along AC; make AQ =x, ARP = o, and CPR = 0. Then the mean value of (PQR)<sup>2</sup> becomes  $\int_0^1 (1-x)^2 dx = \frac{1}{3}$ . O The mean value of a<sup>2</sup> is  $\int_0^1 x^2 dx = \frac{1}{3}$ . O The mean value of a<sup>0</sup> is  $\int_0^1 dx = 1$ . where in explanation of the latter equation it may be observed that when R remains fixed a varies as BP, say x, whilst j<sub>8</sub> varies as CP or (1-x), so that the mean value of a<sup>2</sup> on this preliminary supposition varies as  $\int_0^1 x^2 (1-x)^2 dx = \frac{1}{60}$ . Hence we have m<sub>2</sub> =  $\frac{1}{3} + \frac{1}{3} + \frac{1}{60} = \frac{1}{2}$ . Finally the...



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