



Mathematical Questions and Solutions, from the Educational Times. Volume 18 (Paperback)

By Anonymous

Rarebooksclub.com, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1873 edition. Excerpt: .is fired at random from a gun, with a given velocity; find the average of its range. Solution by the Proposer. If θ be the elevation of the gun, and h the height due to the velocity, the range is $1h \sin 2\theta$. The number of presentations of the gun at an elevation θ is proportional to $\cos \theta$, supposing every elevation to be equally probable; hence the mean range is 3817. (Proposed by M. Collins, B.A.)--A body will describe a circle by a force $= v^2 r / l$ directed towards its centre. Hence prove that if a circle be drawn round any other interior point C as centre of attraction, the force of attraction towards C must vary as PC^{-3} (the cube of the distance of P from the pole of C); P being any position of the point moving in the circumference; and...



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