



## Mathematical Questions and Solutions in Continuation of the Mathematical Columns of The Educational Times Volume 18

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 30 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. 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: . . . probable; hence the mean range is 3817. (Proposed by M. Collins, B. A.)--A body will describe a circle by a force  $v^2/r$  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 show that this last property is true for all conic sections. Solution by J. J. Walker, M. A. 1. Let CT be the perpendicular on the tangent at P, and O the centre of the circle. If f be the force along PC, its component along PO must be  $v^2/CT$   $1/CP$  equal to--; that is,  $fx/OC$ ---, or  $fee/cp$  op. But in...



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