



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

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. 1873 Excerpt: .to a given triangle is one touching in three points the circumscribed circle. II. Solution by James Dale. 1. If  $S, s$  be points on the circumscribing circle diametrically opposite to each other, then the pedals corresponding to these points intersect at right angles in the nine-point circle; and if  $xty, x-y, x3ys$  be the perpendiculars from  $A, B, C$  respectively, then  $xty = xg/2 = x3 = SX$ .  $ax$ ; where  $X, x$  are the perpendiculars from  $S, s$  on the corresponding pedals; therefore  $A, B, C$  lie on a rectangular hyperbola having a pair of pedals for asymptotes. 2. If  $H$  be the ortho-centre of  $ABC$ , then the middle point  $S$  of  $SH$  lies on the nine-point circle, and also on the pedal of  $S$  with respect to  $ABC$ ; hence  $S$  and  $S$  are the extremities of parallel radii of the circles  $ABC, abc$ ;...



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