



Mathematical Questions and Solutions in Continuation of the Mathematical Columns of the Educational Times Volume 18 (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. 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 x, y, z be the perpendiculars from A, B, C respectively, then $xy = xz = yz = SX$. 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, \dots



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