



## Mathematical questions with their solutions, from the Educational times Volume 33

By W. J. C. Miller

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 download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1881 Excerpt: . . . OF, OF are double tangents to a bicircular quartic, having (2) for a circle of inversion, and (3) for the corresponding focal conic. See Prof. Caseys paper on Bicircular Quartics, Art. 47 It remains to show that F, V are points of contact. If p be the perpendicular from O upon the asymptote, and r the distance from O of a point of contact of the double tangent OF; then, since the two points of contact are inverse with respect to (2), and are also equidistant from the asymptote  $lpr - o2 0t y$ . Now, taking the asymptote  $2ox^2 + y^2 - c^2 = 0$ ,  $-i2at 2B1 y - c - 2ca$  OF-  $a^3 g^2 7. P 2 (-) 01 2OF$  hence F is one point of contact of the double tangent. The latter part may be otherwise proved as follows: --The sixteen points of contact of the eight double tangents...



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