



## Mathematical Questions and Solutions Volume 29

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. 1878 Excerpt:  $y = 2iea2b-1$ . From the equation to the negative pedal given in Booth's New Geometrical Methods, Vol. I., p. 143, and in Reprint, Vol. XX., p. 108, Question 3431, viz., QU  $(-? + Qs i8a242 (-, - + b2) R2Q4 j$  where  $Q4 = aV + b2y + 4a2b2$ , and  $R2 = x + y^2$ , it is easily seen that there are two imaginary cusps at infinity in the directions  $a-x$  and  $Py2--0$ . The other four cusps are more easily found from the equation  $P = (l-e-\sin;A)-$ , booth's New Geometrical Methods, Vol. I., l., . 196, eq. ( ), where P is the perpendicular on the tangent, and A the angle it makes with the minor axis. cFP At a cusp--+ P see Booth's Methods, Vol. I., p. 183, eq. (d) changes sign. Now therefore gives giving four more cusps situated symmetrically one in each quadrant....



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