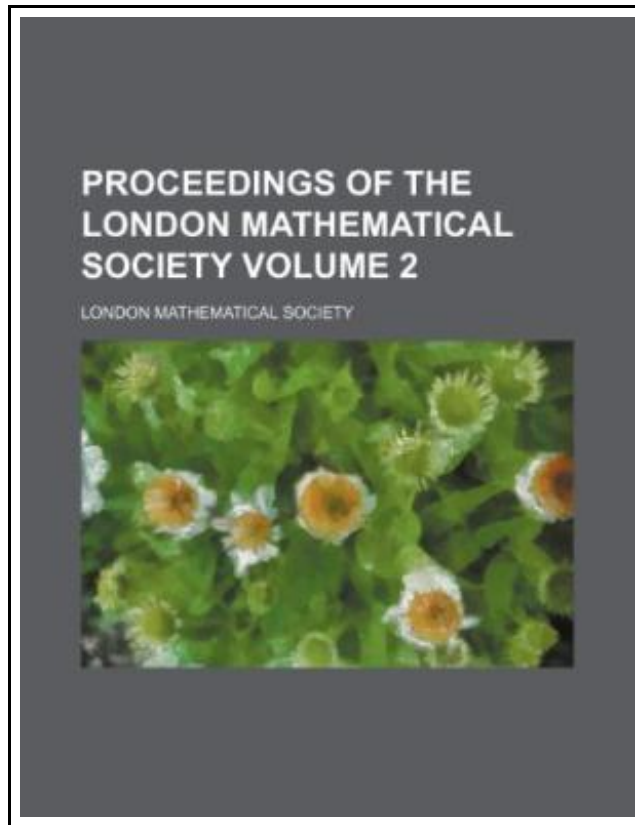


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1866 Excerpt: .distance of the fixed line from the centre of the fixed circle. It will be seen that Newton s method of drawing the Cissoid fulfils this condition, which is also evident geometrically. The word difference may be taken in its algebraical sense. Writing in (A)  $\tan \theta$  for  $m$ , putting  $c$  for  $-r$ , and still taking  $a = 0$ ,  $\phi = 1$ , we have  $(y+c) (\sin \theta + x \cos \theta) - \sqrt{c^2 - k^2 \sin^2 \theta} + (y+c)^2 - k^2 (\sin^2 \theta - y \cos \theta)^2 = 0$ . After some easy reductions, we can divide out  $y + c + k \sin \theta$ , leaving  $(y+c-k \sin \theta) (x^2+y^2) - k^2 (y-c-k \sin \theta) - 2kc (y \sin \theta + x \cos \theta) = 0$  (D), a general equation for circular cubics having a double point, that is to say, the pedal curve of a parabola. Suppose, in fact, that we take a line parallel to the real asymptote for the axis of, the equation of a circular cubic may be written  $(y + A) (x^2 - y^2) - Bx + Cy + D = 0$ . Besides the Cissoid and other known curves, Dr. Booth s Logocyclic Curve is included in the class here represented. We have to make  $\phi = c = -k$ . VOL. II.--NO. 17. L Let  $a, y_1$  be the coordinates of the double point, then we have  $x_1 + y_1 + 2y_1(y_1 + A) + C = 0$ ,  $A + y_1 + 2Bx_1 + 2Cy_1 + 3D = 0$ ,  $2y_1B(y_1 + A) + B = 0$ ; or putting  $c = -k \sin \theta$  for  $A$ , we have  $B = -2/f \cos \theta$ ,  $C = -2c \sin \theta - F$ ,  $D = c + A \sin \theta$ . These results agree with the equation (D). Fig. (2) represents...



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