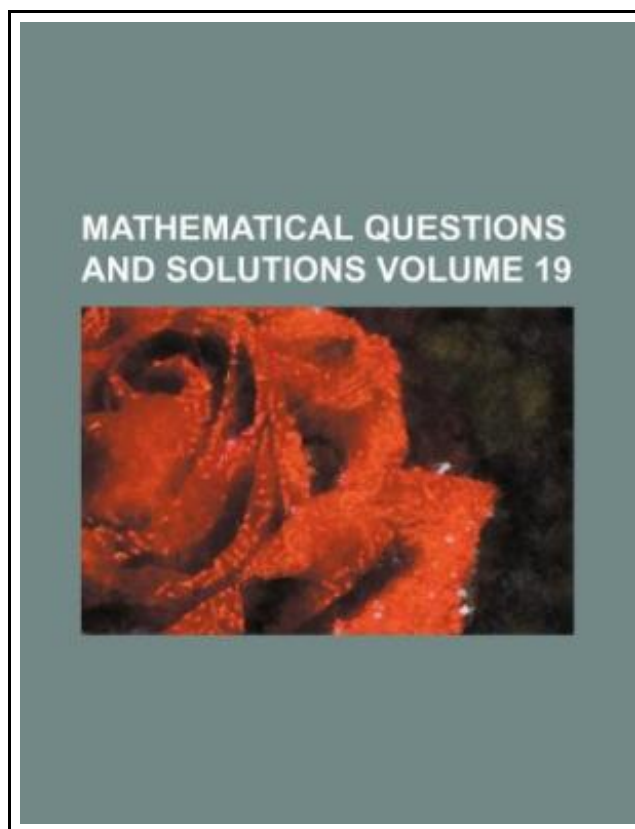


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***(Alfreda Bradtke)***

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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. 1873 Excerpt: .C is  $x^2 + mxy + cy^2 - ax - cy = 0$  (1); hence, when this passes through the centroid, we have  $aem - 2n = 2o2$  (2). Now the coordinates  $x, y$  of the centre of (1) are  $= n(cm - 2a) = 2cV b$  (2) (3)  $ma - 2cn - 2a2. -- --in c(m -- in)$  hence, eliminating  $m$  and  $n$  from (2), (3), (4), we get  $(ac - 2ay - 2cr) = iacxy$ , which is the equation of an ellipse touching the triangle at the point of bisection of each side; it is therefore the maximum inscribed ellipse, and its area is -- of the triangle. 3- 3876. (Proposed by J. J. Sylvester, F.R.S.)--Show that there are 3184 positions in a cubic curve such that at each of them curves of the 50th order may be drawn having 90-point contact with the cubic. Solution by Professor Clifford. The gross number of points where a curve of order  $n$  can have  $3x$ -point contact with a cubic is  $9h2$ . The problem is in fact the same as that of the division of the periods of an elliptic function by 3-, and as there are two periods, there are  $9-2$  solutions. (clebsch, Anwendung der Abelschen Functionen in der Gcometrie, Crelle, baii.) But in the case when  $n$  is a composite number, all the curves whose order is a divisor of -, and which have complete contact with the cubic, are included in the result. Thus each inflexional tangent, taken  $n$  times over, constitutes a curve of order - having 3--point contact with the cubic; and the...



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