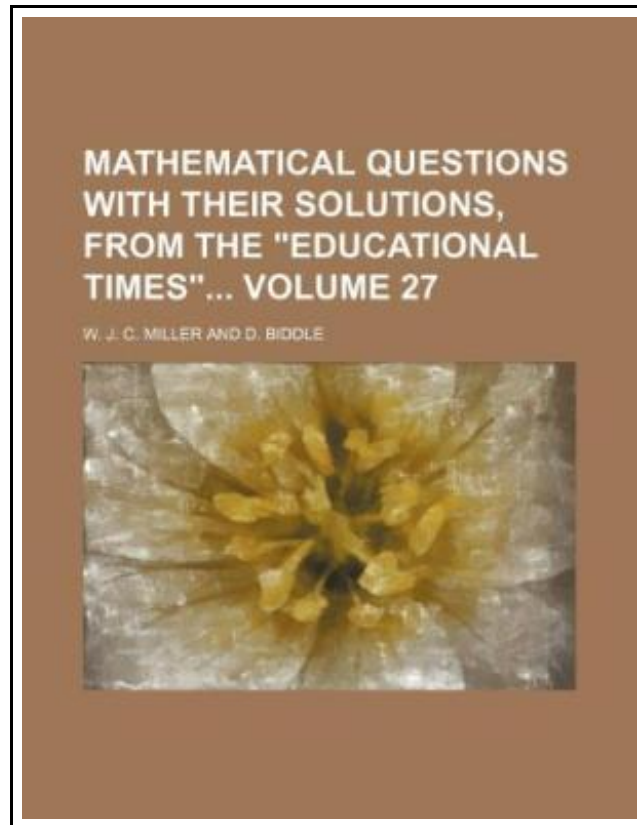


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1864 Excerpt: . Hence the reciprocal of  $C$ , will be the reciprocal of the in. verse of  $C$ , that is to say, the first negative pedal of  $C$ , and must accordingly be denoted by  $C_j$  Similarly the reciprocal of  $C_2$  is  $C_{2,2}$ , the first negative pedal of  $C_v$  and so on. A mere inspection of the above two series--in pedal of the inverse  $C$ , of the primitive curve  $C$ ; or what is equivalent, the  $(-n+1)$ th pedal of the reciprocal  $C$  of the primitive. 2. Writing  $J$  for the operation of inversion,  $R$  for that of reciprocation, and  $P$  for that of taking the pedal, we have, by definitions and the first part of art. 1,  $J^2 = R = 1$ ,  $P = JR$ ;  $JP = J^2R = E$ ,  $RJP = K^2 = 1$ ,  $RJ = P^{-1}$ , . 3. These, then, are the laws of combination of the symbols  $R$ ,  $J$ ,  $P$ . We can now immediately prove the theorems in the question. For 4. Again; any formula may be transformed by interchanging  $R$  and  $J$ , and reversing the signs of all indices of  $P$ . To derive in this way the second pair of theorems from the first, we shall have to make a further change from  $n$  to  $-n$ . The formula; (3) and (4) are immediately convertible. 5. The theory of Derived Surfaces and Curves is simply that of the interpretation of symbols. Let any straight line meet two rectangular axes  $Ox$ ,  $Oy$  in  $A$ ,  $B$ , and...



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