



# The Elements of Algebra Preliminary to the Differential Calculus; And Fit for the Higher Classes of Schools in Which the Principles of Arithmetic Are Taught (Paperback)

By Augustus de Morgan

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. 1837 Excerpt: .x2 xxx X3 Jj Is -ij Jj. Jj and so on. Here 2, 3, 4, c. are called exponents of x. Similarly,  $(a + b) x (a + b)$  is written  $(a + b) (a + 6)x(a + 6)x(a + b)3$  and so on. The following results may now be easily found: The beginner s common mistake is, that  $x$  multiplied  $n$  times by  $x$  is the  $n$ th power. This is not correct;  $x$  multiplied once by  $x$  ( $xx$ ) is the second power;  $x$  multiplied  $n$  times by  $x$  is the  $(n + 1)$ th power. Now why, instead of 1, the rational answer, did we obtain  $j$ ; which has no meaning? Because we applied the preceding rule to a case which does not fall under it. That rule was, to divide a power by another power of a less exponent,  $c$ , and was derived from...



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