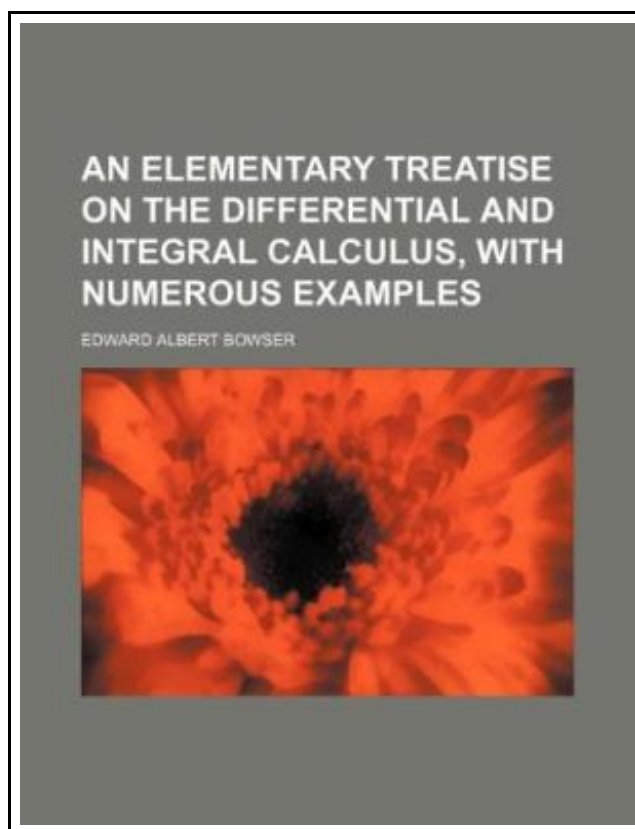


# An Elementary Treatise on the Differential and Integral Calculus, with Numerous Examples



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# AN ELEMENTARY TREATISE ON THE DIFFERENTIAL AND INTEGRAL CALCULUS, WITH NUMEROUS EXAMPLES



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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. 1886 Excerpt: .of the tangent. Since the normal is perpendicular to the tangent at the point of tangency, its equation is, from (2),  $Eem$ .--To apply (2) or (3) to any particular curve, we substitute for----, or---, its value obtained from the equation of the curve and expressed in terms of the co-ordinates of the point of tangency. EXAMPLES. 1. Find the equations of the tangent and normal to the ellipse  $ay + bh = aW$ . We find  $dJL = -x$ .  $l = TM$ .  $dx a2y dx ah/$  and this value in (2) gives,  $y - y = -aYx - ar$ ; which by reduction becomes,  $tffy + Wxx --aW$ , which is the equation of the tangent; and  $y - y = dfx - x$  is the equation of the normal. 2. Find the equations of the tangent and normal to the parabola  $y^2 = 2px$ . We find  $f = P$ ,  $\therefore = ? - dx y dx y$  and this value in (2) gives  $y - y = 5 (-)$ , or  $yy --y^2 = px --px$ . But  $y = 2px$ ; 101. Length of Tangent, Normal, Subtangent, Subnormal, and Perpendicular on the Tangent from the Origin. Let PT represent the tangent at the point P, PN the normal; draw the ordinate PM; then Subtangent--y the perpendicular from origin on tqngent aW ( $a4y + 6V2$ ) 2. Find the subtangent and subnormal to the Cissoid 3 Here 3. Find the value of the subtangent of  $y^2 = 3x^2 - 12$ , at  $x = 4$ . Subtangent = 3. 4. Find the length of the tangent to  $f = 2x$ , at  $x = 8$ ...



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