Differential Calculus & its Applications the product of two functions. then the derivatives 74 = Sim =) Cly = 41 = Con (1 +3) 74 y=x" =) dy = n! Y2 = Con(玉+か) = sin(玉+玉+水) →4 y=1 > y =(-1) x-2. = Sin(211+x) y3 = cos(21 +2) = sin(1 +21 +21)  $y_2 = (1)(-2) x - 3$ = Sin(311 +x)  $y_3 = (1)(-2)(-3) x^{-1}$ =  $(1)^3 \cdot 1 \cdot 2 \cdot 3 x + 1$  $y_n = \frac{d^3y}{dx^n} = \sin\left(\frac{n\pi}{2} + x\right)$ 93 = n (n-1) 6-2) a3 (ax+b) n-3  $= 1 \times 2 \times 3 (a-2)^{-1}$   $= 1 \times 2 \times 3 (a-2)^{-1}$   $= 1 \times 2 \times 3 (a-2)^{-1}$  $y_n = n(n-1)(n-2)$ .  $(n-(n-1))a(ax+1)^m y_n = 1 \times 2 \times 3 \cdot n(a-1)^m y_n =$ gr 8x→ y=cos2x. Yn= Cone (272).2 (a-x) "+1 9= - Sin 2x x2 =  $2^{n} \cos \left( \frac{n\pi}{2} + 2x \right) = 2^{n} \cos \left( \frac{n\pi}{2} + 2x \right)$ = (2) 2(11 +2x).2. J2= - Sin @ ( = +121) · 22 = con ( 2 +121) 22

# **Differential Calculus And Its Applications Spados**

**Isaac Todhunter** 

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derivative of a function at a point generally determines the best linear approximation to the function at that point Differential calculus and integral calculus are associated by the fundamental theorem of calculus which states that differentiation is the reverse process to integration Differentiation has applications to nearly all quantitative disciplines Derivatives are frequently used to find the maxima and minima of a function Equations involving derivatives are called differential equations and are fundamental in describing natural phenomena Derivatives and their generalizations appear in many fields of mathematics such as complex analysis functional analysis differential geometry measure theory and abstract algebra Introduction to Differential Calculus Systematic Studies with Engineering Applications for Beginners presents the fundamental theories and methods of differential calculus and shows how the discussed concepts can be applied to real world problems in engineering and the physical sciences The book sets a solid foundation before advancing to specific calculus methods demonstrating the connections between differential calculus theory and its applications

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