

Differential Calculus & Its Applications

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4.1 (1) SUCCESSIVE DIFFERENTIATION

The reader is already familiar with the process of differentiating a function $y = f(x)$. For ready reference, a list of derivatives of some standard functions is given in the beginning.

The derivative dy/dx is, in general, another function of x which can be differentiated. The derivative of dy/dx is called the *second derivative* of y and is denoted by d^2y/dx^2 . Similarly, the derivative of d^2y/dx^2 is called the *third derivative* of y and is denoted by d^3y/dx^3 . In general, the n th derivative of y is denoted by $d^n y/dx^n$.

Alternative notations for the successive derivatives of $y = f(x)$ are

$$Dy, D^2y, D^3y, \dots, D^n y;$$

$$\text{or } y_1, y_2, y_3, \dots, y_n;$$

$$\text{or } f'(x), f''(x), f'''(x), \dots, f^{(n)}(x).$$

The n th derivative of $y = f(x)$ at $x = a$ is denoted by $(d^n y/dx^n)_a$, $(y_n)_a$ or $f^{(n)}(a)$.

Example 4.1. If $y = e^{ax} \sin bx$, prove that $y_2 - 2ay_1 + (a^2 + b^2)y = 0$.

(Cochin, 2005)

Solution. We have $y = e^{ax} \sin bx$...(i)

$$\therefore y_1 = e^{ax} (\cos bx \cdot b) + \sin bx (e^{ax} \cdot a) = be^{ax} \cos bx + ay$$
 [By (i)]

$$\text{or } y_1 - ay = be^{ax} \cos bx$$
 ...(ii)

Again differentiating both sides,

$$y_2 - ay_1 = be^{ax} (-\sin bx \cdot b) + b \cos bx (e^{ax} \cdot a) = -b^2y + a(y_1 - ay)$$

$$\text{or } y_2 - 2ay_1 + (a^2 + b^2)y = 0.$$

Example 4.2. If $x = a(\cos t + t \sin t)$, $y = a(\sin t - t \cos t)$, find d^2y/dx^2 .

Solution. We have $\frac{dx}{dt} = a(-\sin t + t \cos t + \sin t) = at \cos t$

$$\text{and } \frac{dy}{dt} = a(\cos t + t \sin t - \cos t) = at \sin t$$

Differential Calculus And Its Applications

R Sandford



Differential Calculus And Its Applications:

Decoding **Differential Calculus And Its Applications**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Differential Calculus And Its Applications**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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