



# Differentiation

## 5. Rules of Differentiation :

- (i) If  $y = a \pm u$ , then  $\frac{dy}{dx} = \frac{du}{dx} \pm \frac{dv}{dx}$ .
- (ii) If  $y = ku$ , then  $\frac{dy}{dx} = k \frac{du}{dx}$ .
- (iii) If  $y = uv$ , then  $\frac{dy}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$ .
- (iv) If  $y = \frac{u}{v}$ , then  $\frac{dy}{dx} = \frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$ , ( $v \neq 0$ )
- (v) Composite function :  $\frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx}$
- (vi) Inverse function :  $\frac{dy}{dx} = \frac{1}{\frac{dx}{dy}}$
6. If  $y = [f(x)]^n$ , then it is convenient to find the derivative of the logarithm of the function, and  $\frac{dy}{dx} = [f(x)]^{n-1} \left[ n f'(x) \right]$   
(This formula can directly be used only for COT.)
7. When a given relation expresses  $y$  as an implicit function of  $x$  and we want to find  $\frac{dy}{dx}$ , then we differentiate every term of the relation w.r.t.  $x$ , remembering that a term in  $y$  is first-differentiated w.r.t.  $y$  and then multiplied by  $\frac{dy}{dx}$ .
8. If  $x$  and  $y$  are differentiable functions of  $t$ , then  $\frac{dy}{dx} = \left( \frac{dy}{dt} \right) / \left( \frac{dx}{dt} \right)$ ,  $\frac{dx}{dt} \neq 0$ .
9. If  $f(x)$  and  $g(x)$  are differentiable functions of  $x$ , then derivative of  $f(x)$  w.r.t.  $g(x)$  is equal to  $\frac{f'(x)}{g'(x)}$ , if  $g'(x) \neq 0$ .
10. The derivative of first order derivative, i.e.  $\frac{d}{dx} \left( \frac{dy}{dx} \right)$  is called second order derivative and it is denoted by  $\frac{d^2y}{dx^2}$  or  $y_2$  or  $f''(x)$  or  $y''$ .  
In general, the  $n^{\text{th}}$  order derivative of  $y$  w.r.t.  $x$  is denoted by  $\frac{d^n y}{dx^n}$  or  $f^{(n)}(x)$ .
11. If  $x = f(t)$ ,  $y = g(t)$  are differentiable functions of  $t$ , then  $\frac{d^2y}{dx^2} = \frac{f''(t)g'(t) - g''(t)f'(t)}{[f'(t)]^3}$ .

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NATIONAL MATHEMATICS AND SCIENCE OLYMPIAD, STANDARD 10 (PART 2) (SCIENCE &amp; ARTS)

## INTRODUCTION

The concept of derivative of a function and the method of obtaining the derivative of some functions has been introduced in Sub. XI. Let us recall the definition and the rules of differentiation that you have studied.

**Definition :** If  $x$  and  $x+h$  belong to the domain of function  $f$  and  $\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$  exists, then the function  $f$  is said to be **differentiable** or **derivable** at  $x$  and this limit is called the **derivative** of  $f$  at  $x$ , which is denoted by  $f'(x)$ .

$$\text{Thus, } f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

**Derivative at a point :**

If  $f$  is a function and  $a, a+h$  belong to the domain of  $f$ , then the limit given by

$$\lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}, \text{ if it exists, is called the derivative}$$

of  $f$  at  $x = a$ , and is denoted by  $f'(a)$ .

$$\text{Thus, } f'(a) = \lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$$

**Right hand derivative :**

If  $y = f(x)$  is a real valued function and  $a$  is any real number, then  $\lim_{x \rightarrow a^+} \frac{f(x) - f(a)}{x - a}$ , if it exists, is called the **right hand derivative** of  $f(x)$  at  $x = a$  and is denoted by  $Rf'(a)$  or  $f'_+(a)$ , or  $f''(a^+)$ .

**Left hand derivative :**

If  $y = f(x)$  is a real valued function and  $a$  is any real number, then  $\lim_{x \rightarrow a^-} \frac{f(x) - f(a)}{x - a}$ , if it exists, is called the **left hand derivative** of  $f(x)$  at  $x = a$  and is denoted by  $Lf'(a)$  or  $f'_-(a)$ , or  $f''(a^-)$ .

**Note :** If  $f'_+(a)$  and  $f'_-(a)$  are equal, then  $f(x)$  is said to be differentiable at  $x = a$ .

i.e. If  $f'_+(a) = f'_-(a)$ , then  $f'(a)$  exists.

**Indicator Notation of Derivatives :**

Let a function  $f$  be given by

$$y = f(x) \quad \dots (1)$$

Let  $\Delta x$  be the increment in  $x$  such that  $x$  and  $x + \Delta x$  both

belong to the domain of  $f$ . Let  $\Delta y$  be the increment in  $y$  corresponding to the increment  $\Delta x$  in  $x$ .

$$\text{From (1) because } y + \Delta y = f(x + \Delta x) \quad \dots (2)$$

Sub. (2) from (1) we get

$$y + \Delta y - y = f(x + \Delta x) - f(x)$$

$$\Delta y = \frac{f(x + \Delta x) - f(x)}{\Delta x}$$

$$\lim_{\Delta x \rightarrow 0} \frac{f(x + \Delta x) - f(x)}{\Delta x}$$

$$= \lim_{\Delta x \rightarrow 0} \frac{\Delta y}{\Delta x}$$

This is denoted by  $\frac{d}{dx} f(x)$  or simply as  $\frac{dy}{dx}$ .

This is the standard notation for the derivative.

$$\text{Thus, } \frac{dy}{dx} = \lim_{\Delta x \rightarrow 0} \frac{\Delta y}{\Delta x}, \text{ if it exists.}$$

## Rules of Differentiation :

If  $x$  and  $y$  are differentiable functions of  $t$ , it is a constant and

(i)  $y = a \pm u$ , then  $\frac{dy}{dt} = \frac{du}{dt} \pm \frac{dv}{dt}$

(ii)  $y = ku$ , then  $\frac{dy}{dt} = k \frac{du}{dt}$

(iii)  $y = uv$ , then  $\frac{dy}{dt} = u \frac{dv}{dt} + v \frac{du}{dt}$

(iv)  $y = \frac{u}{v}$ , then  $\frac{dy}{dt} = \frac{v \frac{du}{dt} - u \frac{dv}{dt}}{v^2}$ , ( $v \neq 0$ )

(v)  $y = [f(t)]^n$ , then  $\frac{dy}{dt} = [f(t)]^{n-1} \left[ n f'(t) \right]$

(vi)  $y = \frac{u}{v}$ , then  $\frac{dy}{dt} = \frac{v \frac{du}{dt} - u \frac{dv}{dt}}{v^2}$ , ( $v \neq 0$ )



# Math 12th Class Formulae Maharashtra Board

**Ensheng Dong**



**Math 12th Class Formulae Maharashtra Board:**

The book delves into Math 12th Class Formulae Maharashtra Board. Math 12th Class Formulae Maharashtra Board is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Math 12th Class Formulae Maharashtra Board, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Math 12th Class Formulae Maharashtra Board
- Chapter 3: Math 12th Class Formulae Maharashtra Board in Everyday Life
- Chapter 4: Math 12th Class Formulae Maharashtra Board in Specific Contexts
- Chapter 5: Conclusion

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