

Mathematics Notes for Class 12 chapter 5. Continuity and Differentiability

Derivative

The rate of change of a quantity y with respect to another quantity x is called the derivative or differential coefficient of y with respect to x .

Differentiation of a Function

Let $f(x)$ is a function differentiable in an interval $[a, b]$. That is, at every point of the interval, the derivative of the function exists finitely and is unique. Hence, we may define a new function $g: [a, b] \rightarrow \mathbb{R}$, such that, $\forall x \in [a, b]$, $g(x) = f'(x)$.

This new function is said to be differentiation (differential coefficient) of the function $f(x)$ with respect to x and it is denoted by $df(x)/dx$ or $Df(x)$ or $f'(x)$.

$$f'(x) = \frac{d}{dx} f(x) = \lim_{\delta x \rightarrow 0} \frac{f(x + \delta x) - f(x)}{\delta x}$$

Differentiation *from First Principle

Let $f(x)$ is a function finitely differentiable at every point on the real number line. Then, its derivative is given by

$$f'(x) = \frac{d}{dx} f(x) = \lim_{\delta x \rightarrow 0} \frac{f(x + \delta x) - f(x)}{\delta x}$$

Standard Differentiations

1. $d/dx (x^n) = nx^{n-1}$, $x \in \mathbb{R}$, $n \in \mathbb{R}$
2. $d/dx (k) = 0$, where k is constant.
3. $d/dx (e^x) = e^x$
4. $d/dx (a^x) = a^x \log_e a$, $a > 0$, $a \neq 1$

Mathematics 12th Chapter Continuity

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