

Put (ii) and (iii) in (i).

$$\begin{aligned}\frac{\Delta y}{\Delta x} &= \frac{x^2 + (\Delta x)^2 + 2x\Delta x - 6x - 6\Delta x + 5 - (x^2 - 6x + 5)}{\Delta x} \\ &= \frac{x^2 + (\Delta x)^2 + 2x\Delta x - 6x - 6\Delta x + 5 - x^2 + 6x - 5}{\Delta x} \\ &= \frac{(\Delta x)^2 + 2x\Delta x - 6\Delta x}{\Delta x} \\ &= \frac{\Delta x(\Delta x + 2x - 6)}{\Delta x}\end{aligned}$$

$$\Rightarrow \frac{\Delta y}{\Delta x} = \Delta x + 2x - 6 \quad \dots\dots(iv)$$

As x changes from 1 to 3, Then

$$\Delta x = 3 - 1 = 2$$

Put $x = 1$ and $\Delta x = 2$ in (iv)

$$\frac{\Delta y}{\Delta x} = 2 + 2(1) - 6 = 2 + 2 - 6 = -2 \quad \text{Ans.}$$

Definition: Derivative: The instantaneous rate of change of a function $f(x)$ with respect to independent variable x at particular point P is called derivative of $f(x)$ at that point P .

$$\text{Let } y = f(x) \quad \dots(i)$$

$$\text{Then } y + \Delta y = f(x + \Delta x) \quad \dots\dots(ii)$$

Subtract (i) from (ii)

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

$$\Rightarrow \Delta y = f(x + \Delta x) - f(x) \quad \dots\dots(iii)$$

Both sides of eq(iii) divided by Δx

$$\frac{\Delta y}{\Delta x} = \frac{f(x + \Delta x) - f(x)}{\Delta x} \quad \text{Take } \lim_{\Delta x \rightarrow 0} \text{ on both sides}$$

$$\lim_{\Delta x \rightarrow 0} \frac{\Delta y}{\Delta x} = \lim_{\Delta x \rightarrow 0} \frac{f(x + \Delta x) - f(x)}{\Delta x} \quad \dots\dots(iv)$$

If above limit exist then it is called derivative of $f(x)$.

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Padhraic Smyth



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