

$$(\because \text{ For } x = 5, f(x) = \frac{1}{x-5} = \frac{1}{5-5} = \frac{1}{0} \rightarrow \infty$$

$\therefore 5 \notin \text{ domain of } f)$

Let c be any real number such that $c \neq 5$

$$\lim_{x \rightarrow c} f(x) = \lim_{x \rightarrow c} \frac{1}{x-5} \quad [\text{By (i)}]$$

$$\text{Putting } x = c, \quad = \frac{1}{c-5}$$

$$\text{Putting } x = c \text{ in (i), } f(c) = \frac{1}{c-5}$$

$$\therefore \lim_{x \rightarrow c} f(x) = f(c) \left(= \frac{1}{c-5} \right)$$

$\therefore f(x)$ is continuous at every point c in the domain of f .
Hence f is continuous.

Or

Here $f(x) = \frac{1}{x-5}$, $x \neq 5$ is a rational function

$\left(= \frac{\text{Polynomial 1 of degree 0}}{\text{Polynomial } (x-5) \text{ of degree 1}} \right)$ and its denominator

i.e., $(x-5) \neq 0$ ($\because x \neq 5$). We know that every rational function is continuous (By Note below Solution of Q. No. 3(a)). Therefore f is continuous (in its domain $\mathbb{R} - \{5\}$).

$$(c) f(x) = \frac{x^2 - 25}{x + 5}, x \neq -5$$

Here $f(x) = \frac{x^2 - 25}{x + 5}$, $x \neq -5$ is a rational function and denominator $x + 5 \neq 0$ ($\because x \neq -5$).

$$(\text{In fact } f(x) = \frac{x^2 - 25}{x + 5}, (x \neq -5) = \frac{(x+5)(x-5)}{x+5}$$

$= x - 5, (x \neq -5)$ is a polynomial function). We know that every rational function is continuous. Therefore f is continuous (in its domain $\mathbb{R} - \{-5\}$).

Or

Proceed as in Method I of Q. No. 3(b).

$$(d) \text{ Given: } f(x) = |x - 5|$$

Domain of $f(x)$ is \mathbb{R} ($\because f(x)$ is real and finite for all real x in $(-\infty, \infty)$)

Here $f(x) = |x - 5|$ is a modulus function.

We know that every modulus function is continuous.

(By Note below Solution of Q. No. 3(a)). Therefore f is continuous in its domain \mathbb{R} .

Chapter Continuity And Differentiability Pradeep Home

Rachel S Tattersall



Chapter Continuity And Differentiability Pradeep Home:

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