

# Limit and Continuity



## EXERCISE - 1 (A)

1. Evaluate the following limits.

(a)  $\lim_{x \rightarrow 1} (2x + 3)$

(c)  $\lim_{x \rightarrow 5} \frac{4}{x-7}$

(b)  $\lim_{x \rightarrow -7} (2x + 5)$

(d)  $\lim_{h \rightarrow 0} \frac{5}{\sqrt{2h+1}+1}$

**Solution**

(a) When  $x = 1$ ,  $2x + 3 = 2 + 3 = 5$

$\therefore \lim_{x \rightarrow 1} (2x + 3) = 5$

(b) When  $x = -7$ ,  $2x + 5 = 2(-7) + 5 = -9$

$\therefore \lim_{x \rightarrow -7} (2x + 5) = -9$

(c) When  $x = 5$ ,  $\frac{4}{x-7} = \frac{4}{5-7} = \frac{4}{-2} = -2$

$\therefore \lim_{x \rightarrow 5} \frac{4}{x-7} = -2$

(d) When  $h = 0$ ,  $\frac{5}{\sqrt{2h+1}+1} = \frac{5}{\sqrt{2+0+1}+1} = \frac{5}{\sqrt{1}+1} = \frac{5}{2}$

2. Evaluate

(a)  $\lim_{x \rightarrow 0} \frac{7x^2 + 4x}{x}$

(c)  $\lim_{x \rightarrow 1} \frac{x^2 - 4x + 3}{x-1}$

(e)  $\lim_{x \rightarrow 1} \frac{x^2 + x - 2}{x^2 - 1}$

(g)  $\lim_{x \rightarrow -3} \frac{x+3}{x^2 + 4x + 3}$

(b)  $\lim_{x \rightarrow 5} \frac{x^2 - 25}{x-5}$

(d)  $\lim_{x \rightarrow 2} \frac{x^2 - 7x + 10}{x-2}$

(f)  $\lim_{x \rightarrow 1} \frac{x^2 - 4x + 3}{x^2 - 3x + 2}$

(h)  $\lim_{x \rightarrow 3} \left[ \frac{1}{x-3} - \frac{9}{x^2 - 3x^2} \right]$

**Solution**

(a)  $\lim_{x \rightarrow 0} \frac{7x^2 + 4x}{x} \left[ \frac{0}{0} \text{ form} \right]$

$\lim_{x \rightarrow 0} \frac{x(7x+4)}{x} = \lim_{x \rightarrow 0} (7x+4) = 7+0+4 = 4$

(b)  $\lim_{x \rightarrow 5} \frac{x^2 - 25}{x-5} \left[ \frac{0}{0} \text{ form} \right]$

$= \lim_{x \rightarrow 5} \frac{(x+5)(x-5)}{(x-5)} = \lim_{x \rightarrow 5} (x+5) = 5+5 = 10$

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