

(الف) $\lim_{x \rightarrow 1^+} \frac{x^2 + d}{x+1} = \frac{1+d}{2} = \frac{9}{2} = 4.5$

(1)

(ب) $\lim_{x \rightarrow 1^+} \frac{x^2 + d}{x+1} = 3$

(د) $\lim_{x \rightarrow 0} \frac{x^2 + V}{[x^2]} = \frac{V}{0} = \infty$

$\Rightarrow$ (خبر ندارد)

(ج) $\lim_{x \rightarrow 1^+} \frac{x^2 + d}{x+1} = 3$

(الف) $\lim_{x \rightarrow 1^+} f(x) - 2 = f_+(1) - 2 = 6 - 2 = 4$ (ب) $[f(1^+) - 2] = [4] = 4$

(ج) $\left[\lim_{x \rightarrow 1^+} f(x) - 2 \right] = [4] = 4$

(د) $\left[\lim_{x \rightarrow 1^+} f(x) - 2 \right] = [4] = 4$

(الف) $\lim_{x \rightarrow 1^+} \frac{x^2 + 1}{x} = \frac{1^2 + 1}{1} = \frac{2}{1} = 2$

(3)

(ب) $\lim_{x \rightarrow 1^+} \left[\frac{x^2 + 1}{x} \right] = \left[\frac{2}{1} \right] = 2$

(ج) $\left[\lim_{x \rightarrow 1^+} \frac{x^2 + 1}{x} \right] = [2] = 2$

(د) $\left[\lim_{x \rightarrow 1^+} \frac{x^2 + 1}{x} \right] = [2] = 2$

(الف) $\lim_{x \rightarrow 1} \frac{x-d}{(x-1)(x-d)} = \lim_{x \rightarrow 1} \frac{x-d}{(x-1)(x-d)} = \frac{1}{x-1} = \frac{1}{1^+-1} = \frac{1}{0^+} = +\infty$

(4)

$\lim_{x \rightarrow 1} \frac{1}{x-1} = \frac{1}{0^+} = +\infty$

خبر ندارد!

(ب) $\lim_{x \rightarrow 1} \frac{x-d}{(x-1)^2} = \frac{1-d}{0^+} = \frac{-1}{0^+} = -\infty$

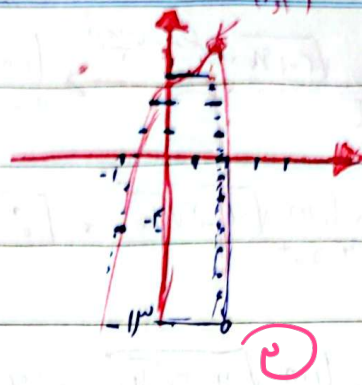
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$$\text{الف) } \lim_{n \rightarrow 1} [4n^3 - 3n^2 + 3] = 3$$

$$\text{ب) } \lim_{n \rightarrow 0} [4n^3 - 3n^2 + 3] = 3$$

$$\lim_{n \rightarrow 0} [4n^3 - 3n^2 + 3] = 3$$



$$\text{الف) } \lim_{n \rightarrow +\infty} [-3n] - [0n] = 1 + 1 \Rightarrow \lim_{n \rightarrow +\infty} [-3n] - [0n] = 2$$

$$\lim_{n \rightarrow -\infty} [-3n] - [0n] = 9 + 1 \Rightarrow \lim_{n \rightarrow -\infty} [-3n] - [0n] = 10$$

$$\text{ب) } \lim_{n \rightarrow (-\frac{1}{2})^-} \left[\frac{-1}{2^n} \right] = \left[\frac{-1}{(\frac{1}{2})^+} \right] = \left[-1 \frac{1}{2} \right] = -1 \frac{1}{2}$$

$$\text{الف) } \rightarrow \lim_{n \rightarrow 2^+} \frac{n^3 - 1}{n^2 - 2} = \frac{(n-1)(n^2 + n + 1)}{(n-2)(n+2)} = \frac{n^2 + n + 1}{n+2}$$

$$\rightarrow \lim_{n \rightarrow 2^-} \frac{n^3 - 1}{n^2 - 2} = \frac{-(n-2)(n^2 + n + 1)}{(n-2)(n+2)} = -\frac{n^2 + n + 1}{n+2}$$

$$\text{ب) } \lim_{n \rightarrow \pi} \frac{|\sin n|}{\sin n}$$

$$\Rightarrow \lim_{n \rightarrow \pi} \frac{|\sin n|}{\sin n \cos n} = \frac{-\sin n}{\sin n \cos n} = \frac{-1}{\cos n} = \frac{-1}{-1} = 1$$

$$\text{جواب: } \frac{1}{2}$$

$$\Rightarrow \lim_{n \rightarrow \pi} \frac{|\sin n|}{\sin n \cos n} = \frac{\sin n}{\sin n \cos n} = \frac{1}{\cos n} = \frac{1}{-1} = -1$$

$$\lim_{n \rightarrow -3} [-3n] - [0n] \rightarrow \lim_{n \rightarrow -3} [-3n] - [0n] = 1 - (-1) = 2$$

$$\rightarrow \lim_{n \rightarrow -3} [-3n] - [0n] = 9 - (-1) = 10$$

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سوال 5 - الف

