

$$\text{الف) } \lim_{n \rightarrow \infty} \frac{5n+0}{n+1} = 5 \quad \text{ب) } \lim_{n \rightarrow \infty} \frac{5n+0}{n+1} = 5 \quad \text{ج) } \lim_{n \rightarrow \infty} \frac{5n+0}{n+1} = 5$$

$$\text{د) } \lim_{n \rightarrow 0} \frac{5n+1}{[n]} \quad \text{هـ) } \lim_{n \rightarrow \infty} [5n] = 5 \quad \text{و) } \lim_{n \rightarrow \infty} [5n] = 5$$

$$\text{ز) } \lim_{n \rightarrow \infty} [5n] = 5 \quad \text{ح) } \lim_{n \rightarrow \infty} [5n] = 5 \quad \text{ط) } \lim_{n \rightarrow \infty} [5n] = 5$$

$$\text{ث) } \lim_{n \rightarrow \infty} [5n] = 5 \quad \text{ي) } \lim_{n \rightarrow \infty} [5n] = 5 \quad \text{ك) } \lim_{n \rightarrow \infty} [5n] = 5$$

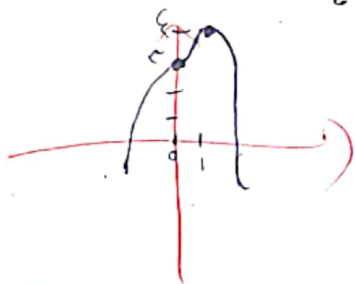
$$\text{الف) } \lim_{n \rightarrow 1} \frac{n-0}{n^2-2n+0} \quad \text{ب) } \lim_{n \rightarrow 1} \frac{n-0}{n^2-2n+0} = -\infty$$

$$\text{ج) } \lim_{n \rightarrow 1} \frac{n-0}{n^2-2n+0} = -\infty \quad \text{د) } \lim_{n \rightarrow 1} \frac{n-0}{n^2-2n+0} = -\infty$$

$$\text{هـ) } \lim_{n \rightarrow \infty} [5n] = 5 \quad \text{و) } \lim_{n \rightarrow \infty} [5n] = 5$$

$$\text{ز) } \lim_{n \rightarrow (-\frac{1}{5})^-} \left[\frac{-1}{2n} \right] = [-15^+] = -15$$

$$\text{ح) } \lim_{n \rightarrow 1} [5n^2 - 2n^2 + n] \quad \text{ط) } \lim_{n \rightarrow 1} [5n^2 - 2n^2 + n] = 4$$



$$\lim_{n \rightarrow 1^-} [5n] = 4 \quad \lim_{n \rightarrow 1^+} [5n] = 5$$

$$\text{ث) } \lim_{n \rightarrow 0} [5n] = 0 \quad \text{ي) } \lim_{n \rightarrow 0} [5n] = 0$$

2, 2, 2

✓

$$\frac{-\sin}{\sin \cos}$$

$$\frac{\sin}{\sin \cos} \rightarrow \frac{1}{\cos}$$

$$\frac{1}{\frac{1}{2} + \frac{1}{2}}$$

٥
نَاصِرِينَ

$$u_1 \sqrt{m} - u_2 \sqrt{m} - u_3 \sqrt{m} = \frac{f}{f} = 0 \rightarrow u_1 = u_2 = u_3$$

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

$$\frac{a}{-} \rightarrow \frac{1}{-} \rightarrow -\infty$$

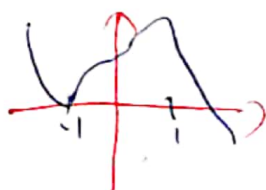
$$\psi^+ \rightarrow \frac{\psi^+ - \psi}{2} = \psi_+ \rightarrow \psi$$

$$x \rightarrow \frac{x-5}{x-1} = -1$$

3

16

$$\begin{array}{c} \text{a} \quad \text{c} \quad \text{d} \\ \hline - \quad + \quad + \quad - \end{array}$$



A hand-drawn graph on a coordinate plane. The x-axis and y-axis are drawn in red. The x-axis has tick marks at -1 and 1. A blue curve is plotted, starting from the upper left, passing through a local minimum at (-1, 0), reaching a local maximum at (0, 1), passing through another local minimum at (1, 0), and continuing upwards to the right. The curve is symmetric about the y-axis.

$$E_n(n^2-1) = E_n(n+1)(n-1)$$

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