

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

$$\text{ب) } \lim_{n \rightarrow +\infty} \frac{2n+1}{n+1} = 2 \quad (3)$$

-1

$$\text{ج) } \lim_{n \rightarrow +\infty} \frac{2n+1}{n+1} = 2 \quad (3)$$

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$$\frac{2n+1}{n+1} = \frac{2(n+1)-1}{n+1} = 2 - \frac{1}{n+1}$$

-4

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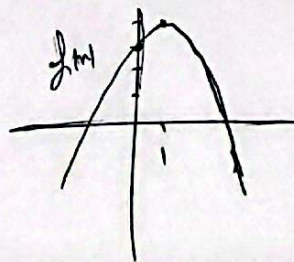
-5

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$$f(n) = 2n^2 - n^2 + n \rightarrow f'(n) = 2n - 2n = 0 \rightarrow \frac{1}{1+1} = \frac{1}{2}$$

-6

$$f(1) = 2$$



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$$\frac{Z_m}{Z_{Ym}} = \frac{\cancel{Z_m}}{Y \cancel{Z_m} c_m} = \left(\frac{-1}{Y} \right)$$

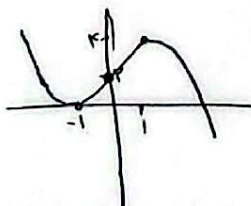
$\frac{0.2}{2} \rightarrow \sqrt{0.1} = 0.316$

$\sqrt{0^2 - x \cdot 0^2}$, $(\frac{Q}{r_1})$

$$\text{الف) } \lim_{n \rightarrow \infty} \frac{(-1)^n [2n]}{n^2 - n^2} \xrightarrow[\substack{[0]^+ \rightarrow 0 \\ (-)^+ = 1}]{2n^+ \rightarrow 0^+} \frac{1}{n^2 - n^2} = \frac{1}{-} \cdot (-\infty) = \infty$$

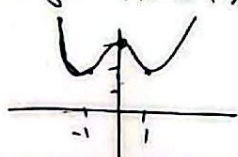
$$\lim_{n \rightarrow \infty} \frac{n - p_n}{n - p_n} \xrightarrow{+} \frac{n^+ - p_n^+}{n^+ - p_n^+} = \frac{0^+}{0^+} \xrightarrow{\text{L'Hôpital}} \frac{n^+ - p_n^+}{n^+ - p_n^+} = \frac{n^+ - p_n^+}{n^+ - p_n^+} = 1$$

الف) $y = \Delta x^2 - x^4 + x \rightarrow y' = 1\Delta x^2 - 1\Delta x^4 + 1\Delta x^1(1-x^3) \rightarrow$



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$\rightarrow x^2 - 4x + 6 \rightarrow y = x^2 - 4x = x(x-4) = x(x-1)(1) + x(n-1)(n+1) \rightarrow \begin{array}{c|c|c|c} -1 & 0 & 1 \\ \hline \swarrow & \uparrow & \searrow & \nearrow \end{array}$



$\begin{array}{c} -1 \quad 0 \quad 1 \\ \hline \searrow \quad \nearrow \quad \searrow \quad \nearrow \end{array}$