

12 السؤال B - تكليف A

بسم الله الرحمن الرحيم

صالح مالح

$$\lim_{n \rightarrow \infty} f(n) = \lim_{n \rightarrow \infty} f(n) \Rightarrow \lim_{n \rightarrow \infty} f(n) = 2 \left[\frac{1}{2} \right] + 2 \left[\frac{1}{2} \right] = 2 \quad (1)$$

$$\lim_{n \rightarrow \infty} f(n) = 2 \left[\frac{1}{2} \right] + 2 \left[\frac{1}{2} \right] = 2 - 0 = 2 \Rightarrow \lim_{n \rightarrow \infty} f(n) = 2 \Rightarrow \left[\frac{2}{2} \right] = 1$$

$$\left[\left(2 \times \left(\frac{1}{2} \right)^{-1} \right) - 1 \right] = \left[1 - 1 \right] = 0 \quad (2)$$

$$\left[\left(\frac{1}{2} \right)^3 - \left(\frac{1}{2} \right) \right] = \left[\frac{1}{8} - \frac{1}{2} \right] = -\frac{3}{8} \quad (3)$$

$$\left\{ \begin{array}{l} 2 < -\frac{1}{2} \Rightarrow 2^2 > \frac{1}{2} \Rightarrow \frac{1}{2^2} < \frac{1}{2} \Rightarrow \frac{1}{2^2} < 1 \Rightarrow \left[\frac{1}{2^2} \right] = 0 \\ \frac{-2}{2^2} > 1 \Rightarrow \left[\frac{-2}{2^2} \right] = 1 \end{array} \right. \quad (4)$$

$$\lim_{n \rightarrow \infty} \frac{-2 - 2 + 11}{-1 - 1} = \frac{-1}{-2} = \frac{1}{2}$$

$$\lim_{n \rightarrow \infty} \frac{\sin^2 n}{[n] + \cos n} = \frac{\sin^2 n}{1 + \cos n} = \frac{0}{0} = \frac{1 - \cos^2 n}{1 + \cos n} \quad (5)$$

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

$$\frac{\sqrt{2n+3} - \sqrt{3n+3}}{1 + \sqrt{2n}} \times \frac{\sqrt{2n+3} + \sqrt{3n+3}}{\sqrt{2n+3} + \sqrt{3n+3}} \times \frac{1}{1} \Rightarrow \frac{-1 \times 3}{2 \times 2} \Rightarrow \quad (6)$$

$$\text{Hop} \Rightarrow \frac{-3}{2}$$

$$\frac{0}{0} \Rightarrow \text{Hop} \Rightarrow \frac{2 - \sqrt{\frac{1}{2n}}}{2 - \frac{3}{\sqrt{2n+1}}} = -\frac{2}{3} \quad (7)$$

ملاحظه

مجموع منفرجه است و جواب دارد ← سم است

(۸)

Here

$$\frac{b}{\sqrt{b+c}} = \frac{1}{\sqrt{c}} \rightarrow \sqrt{b+c} = \sqrt{b} \rightarrow b+c = b^2$$

$$\lim_{n \rightarrow -\infty^+} f(n) = \lim_{n \rightarrow -\infty^-} f(n) \rightarrow \lim_{n \rightarrow -\infty^+} \frac{f + k[-\infty^+]}{0^+} = +\infty \rightarrow f - \infty k > 0 \rightarrow k < f$$

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$$\lim_{n \rightarrow -\infty^-} \frac{f + k[-\infty^-]}{0^+} = +\infty \rightarrow f - \infty k < 0 \rightarrow k > \frac{f}{\infty} \rightarrow [-k] = -f$$