

الف) $\lim_{x \rightarrow 2^+} \varepsilon x - 3 = \varepsilon(2) - 3 = 5$

ب) $\lim_{x \rightarrow 2^-} \varepsilon x - 3 = \varepsilon(2) - 3 = 5$

الف) $\lim_{x \rightarrow 2^+} \varepsilon[x] - 3 = \varepsilon(2) - 3 = 5$

ب) $\lim_{x \rightarrow 2^-} \varepsilon[x] - 3 = \varepsilon(1) - 3 = 1$

الف) $\lim_{x \rightarrow 2^+} [\varepsilon x - 3] = 5$

ب) $\lim_{x \rightarrow 2^-} [\varepsilon x - 3] = \varepsilon$

الف) $[\lim_{x \rightarrow 2^+} \varepsilon x - 3] = 5$

ب) $[\lim_{x \rightarrow 2^-} \varepsilon x - 3] = 5$

الف) $\lim_{x \rightarrow 3} \frac{\varepsilon x - 3}{x - 3} \begin{cases} x \rightarrow 3^+ : +\infty \\ x \rightarrow 3^- : -\infty \end{cases}$

ب) $\lim_{x \rightarrow 3} \frac{\varepsilon x - 3}{(x - 3)^2} \begin{cases} x \rightarrow 3^+ : +\infty \\ x \rightarrow 3^- : +\infty \end{cases}$

الف) $\lim_{x \rightarrow 3} \frac{\varepsilon x - 3}{\sqrt{x - 3}} \begin{cases} x \rightarrow 3^+ : +\infty \\ x \rightarrow 3^- : \text{تن} \end{cases}$

ب) $\lim_{x \rightarrow 3} \frac{\varepsilon x - 3}{\sqrt{x^2 - \varepsilon x + 3}} \begin{cases} x \rightarrow 3^+ : +\infty \\ x \rightarrow 3^- : \text{تن} \end{cases}$

$\frac{1}{\pm 1} \frac{3}{\mp 1}$

الف) $\lim_{x \rightarrow 3} \frac{\varepsilon x - 3}{x^2 - \sqrt{x} + 12} \begin{cases} x \rightarrow 3^+ : +\infty \\ x \rightarrow 3^- : -\infty \end{cases}$

$\frac{3}{\pm 1} \frac{\varepsilon}{\mp 1}$

ب) $\lim_{x \rightarrow 3} \frac{\varepsilon x - 3}{[x - 3]} \begin{cases} x \rightarrow 3^+ : \frac{12 - 3}{0} \text{ تن} \\ x \rightarrow 3^- : \frac{12 - 3}{-1} = -9 \end{cases}$



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الف) $\lim_{x \rightarrow 3} [3x] + [-2x]$ $\left\{ \begin{array}{l} x \rightarrow 3^+ : 9 + (-6) = 3 \\ x \rightarrow 3^- : 8 + (-6) = 2 \end{array} \right.$ -٨

ب) $\lim_{x \rightarrow -4} [-4x] + [2x]$ $\left\{ \begin{array}{l} x \rightarrow -4^+ : 16 + (-8) = 8 \\ x \rightarrow -4^- : 16 + (-8) = 8 \end{array} \right.$ ٩

الف) $\lim_{x \rightarrow 2} [x^2 - 4x]$ $\left\{ \begin{array}{l} x \rightarrow 2^+ : -4 \\ x \rightarrow 2^- : -4 \end{array} \right.$ ١٠
-٩

ب) $\lim_{x \rightarrow 3} [4x - x^2]$ $\left\{ \begin{array}{l} x \rightarrow 3^+ : 9 \\ x \rightarrow 3^- : 8 \end{array} \right.$ ١١
-١٥

الف) $\lim_{x \rightarrow 2} \frac{|x-2|}{x^2 - 3x + 2} = \frac{1}{2-1} = 1$ $\left\{ \begin{array}{l} \text{ب) } \lim_{x \rightarrow 1} \frac{x - [x]}{x^2 - 1} \left\{ \begin{array}{l} x \rightarrow 1^+ : 0 \\ x \rightarrow 1^- : -1 \end{array} \right. \end{array} \right.$ ١٣