

الف) $\lim_{x \rightarrow 2^+} 4x - 3 = 5$

ب) $\lim_{x \rightarrow 2^-} 4x - 3 = 5$

الف) $\lim_{x \rightarrow 2^+} [4x] - 3 = 5$

ب) $\lim_{x \rightarrow 2^-} [4x] - 3 = 1$

الف) $\lim_{x \rightarrow 2^+} [4x - 3] = 5$

ب) $\lim_{x \rightarrow 2^-} [4x - 3] = 4$

الف) $[\lim_{x \rightarrow 2^+} 4x - 3] = 5$

ب) $[\lim_{x \rightarrow 2^-} 4x - 3] = 5$

الف) $\lim_{x \rightarrow 3} \frac{4x - 3}{x - 2} \begin{cases} \frac{9}{0^+} = +\infty \\ \frac{9}{0^-} = -\infty \end{cases}$

ب) $\lim_{x \rightarrow c} \frac{4x - 3}{(x - c)^2} \begin{cases} \frac{9}{0^+} = +\infty \\ \frac{9}{0^-} = +\infty \end{cases}$

الف) $\lim_{x \rightarrow 2} \frac{4x - 3}{\sqrt{x - 3}} \begin{cases} \frac{9}{0^+} = +\infty \\ \frac{9}{0^-} \Rightarrow \text{ت.ن.} \end{cases}$

ب) $\lim_{x \rightarrow 3} \frac{4x - 5}{\sqrt{2x^2 - 4x + 3}} \begin{cases} \frac{9}{0^+} = +\infty \\ \frac{9}{0^-} \Rightarrow \text{ت.ن.} \end{cases}$

$2x^2 - 4x + 3 = (x - 1)(2x - 3)$
 $\frac{1}{+1} \frac{3}{-1}$

الف) $\lim_{x \rightarrow 3} \frac{4x - 3}{x^2 - 7x + 12} \begin{cases} \frac{9}{0^-} = -\infty \\ \frac{9}{0^+} = +\infty \end{cases}$

$2x^2 - 7x + 12 = (x - 3)(2x - 4)$
 $\frac{3}{+1} \frac{4}{-1}$

ب) $\lim_{x \rightarrow 3} \frac{4x - 3}{[x - 3]} \begin{cases} \frac{9}{0} \Rightarrow \text{ت.ن.} \\ \frac{9}{-1} = -9 \end{cases}$

الف) $\lim_{x \rightarrow 3} [3x] + [-2x] \begin{cases} 9 - 6 = 3 \\ 8 - 6 = 2 \end{cases}$

ب) $\lim_{x \rightarrow 4} [-4x] + [2x] \begin{cases} -16 + 8 = -8 \\ -16 + 8 = -8 \end{cases}$

الف) $\lim_{x \rightarrow 2} [x^2 - 4x] = -4$



$$ب) \lim_{x \rightarrow 2} [4x - x^2] = 8$$



$$الف) \lim_{x \rightarrow 2} \frac{|x-2|}{x^2 - x + 2} \begin{cases} x^+ & \frac{\cancel{x-2}}{(\cancel{x-2})(x-1)} = \frac{1}{x-1} = 1 \\ x^- & \frac{-\cancel{(x-2)}}{(\cancel{x-2})(x-1)} = \frac{-1}{x-1} = -1 \end{cases}$$

-10

$$ب) \lim_{x \rightarrow 1} \frac{x - [2x]}{x^2 - 1} \begin{cases} 1^+ & \frac{x-1}{(x-1)(x+1)} = \frac{1}{x+1} \\ 1^- & \frac{1}{0^-} = -\infty \end{cases}$$