

الف: $f \times 2 - 3 = 5$

$\therefore f \times 2 - 3 = 5$

الف: $[2^+] = 2$

$f \times 2 - 3 = 5$

ب: $[2^-] = 1$

$f \times 1 - 3 = 1$

الف: $[f \times 2^+ - 3] = [5^+] = 5$

ب: $[f \times 2^- - 3] = [5^-] = 4$

الف: $\lim_{x \rightarrow 2} f \times x - 3 = 5$
 $[5] = 5$

$\therefore \lim_{x \rightarrow 2} f \times x - 3 = 5$
 $[5] = 5$

الف:

$$\lim_{x \rightarrow 2^+} \frac{f \times x - 3}{x - 2} = \frac{9}{0^+} = +\infty$$

$$\lim_{x \rightarrow 2^-} \frac{f \times x - 3}{x - 2} = \frac{9}{0^-} = -\infty$$

ب:

$$\lim_{x \rightarrow 2^+} \frac{f \times x - 3}{(x - 2)^2} = \frac{9}{0^+} = +\infty$$

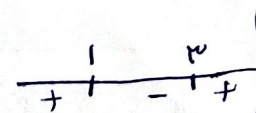
$$\lim_{x \rightarrow 2^-} \frac{f \times x - 3}{(x - 2)^2} = \frac{9}{0^+} = +\infty$$

الف:

$$\lim_{x \rightarrow 0} \frac{x^2 - x}{x^2 - x} = \frac{0}{0^+} = +\infty$$

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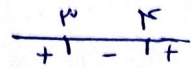
ب:

$$(x-1)(x-3)$$


$$\lim_{x \rightarrow 0} \frac{x^2 - x}{0^+} = \frac{0}{0^+} = +\infty$$

ن =

الف: $(x-2)(x-3)$



$$\lim_{x \rightarrow 0} \begin{cases} \frac{9}{0^-} = -\infty \\ \frac{9}{0^+} = +\infty \end{cases}$$

ب:

$$\lim_{x \rightarrow 0} \begin{cases} \frac{9}{x^2 - 3} = \frac{9}{0} = \text{ن} \\ \frac{9}{x^2 - 3} = \frac{9}{-1} = -9 \end{cases}$$

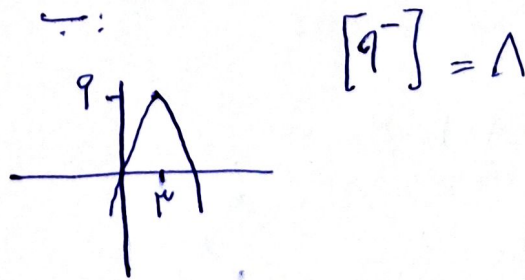
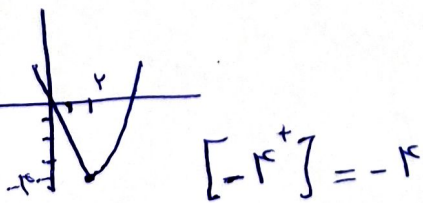
الف:

$$\lim_{x \rightarrow 0} \begin{cases} [9^+] + [-4^-] = 5 \\ [9^-] + [-4^+] = 5 \end{cases}$$

ب:

$$\lim_{x \rightarrow 0} \begin{cases} [x^2] + [-1x^+] = 1 \\ [x^2] + [-1x^-] = 1 \end{cases}$$

الف:



الف:

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

$$x^- = \frac{x-1}{(x-1)(x-1)} = \frac{-1}{x-1} = -1$$

