

سوال 1)  $\lim_{x \rightarrow 2^+} (x-3)$   $\rightarrow$   $\lim_{x \rightarrow 2^-} (x-3)$   
 $\epsilon x 2 - 3 = 1 - 3 = 0$   $\epsilon x 2 - 3 = 0$

سوال 2)  $\lim_{x \rightarrow 2^+} \epsilon [x] - 3$   $\rightarrow$   $\lim_{x \rightarrow 2^-} \epsilon [x] - 3$   
 $\epsilon x 2 - 3 = 0$   $\epsilon x 1 - 3 = 1$

سوال 3)  $\lim_{x \rightarrow 2^+} [x(x-3)]$   $\rightarrow$   $\lim_{x \rightarrow 2^-} [x(x-3)]$   
 $[0^+] = 0$   $[0^-] = 4$

سوال 4)  $\lim_{x \rightarrow 2^+} [x(x-3)] = 0$   $\rightarrow$   $\lim_{x \rightarrow 2^-} [x(x-3)] = 0$

سوال 5)  $\lim_{x \rightarrow 3} \frac{x-3}{x-3}$   $\xrightarrow{3^+} \frac{0^+}{0^+} = +\infty$   
 $\xrightarrow{3^-} \frac{0^-}{-0^-} = -\infty$

سوال 6)  $\lim_{x \rightarrow 3} \frac{x-3}{(x-3)^2}$   $\xrightarrow{3^+} \frac{0^+}{(0^+)^2} = +\infty$   
 $\xrightarrow{3^-} \frac{0^-}{(0^-)^2} = +\infty$

سوال 7)  $\lim_{x \rightarrow 2} \frac{x-3}{\sqrt{x-3}}$   $\xrightarrow{2^+} \frac{0^+}{\sqrt{0^+}} = \frac{0}{0^+} = +\infty$   
 $\xrightarrow{2^-} \frac{0^-}{\sqrt{0^-}} = \frac{0}{0^-} = -\infty$

سوال 8)  $\lim_{x \rightarrow 2} \frac{x-3}{\sqrt{x-3}}$   $\xrightarrow{2^+} \frac{0^+}{\sqrt{0^+}} = \frac{0}{0^+} = +\infty$   
 $\xrightarrow{2^-} \frac{0^-}{\sqrt{0^-}} = \frac{0}{0^-} = -\infty$

الف)  $\lim_{x \rightarrow 3} \frac{\varepsilon x - 3}{x^2 - \sqrt{x} + 12}$  سوال 7

$\begin{matrix} \mu^+ \\ \mu^- \end{matrix} \rightarrow \frac{9}{0^-} = -\infty$

$\begin{matrix} \mu^+ \\ \mu^- \end{matrix} \rightarrow \frac{9}{0^+} = +\infty$

$\frac{\varepsilon}{\delta}$

$\frac{3}{+ \delta - \delta +}$

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

$\begin{matrix} \mu^+ \\ \mu^- \end{matrix} \rightarrow \frac{9}{0} = \infty$

$\begin{matrix} \mu^+ \\ \mu^- \end{matrix} \rightarrow \frac{9}{[3]^2} = -9$

الف)  $\lim [3a] + [-2a]$  سوال 8

$\begin{matrix} \mu^+ \\ \mu^- \end{matrix} \rightarrow 9 + (-6) = 3$

$\begin{matrix} \mu^+ \\ \mu^- \end{matrix} \rightarrow 1 + (-6) = -5$

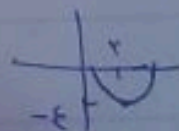
ب)  $\lim_{x \rightarrow -2} [-\varepsilon x]$

$\begin{matrix} -\varepsilon^+ \\ -\varepsilon^- \end{matrix} \rightarrow 2\varepsilon - 12 \geq 11$

$\begin{matrix} -\varepsilon^+ \\ -\varepsilon^- \end{matrix} \rightarrow 2\varepsilon - 12 \geq 11$

الف)  $\lim_{x \rightarrow 2} [x^2 - \varepsilon x]$  سوال 9

در صورتی که طرف بالا از 4-  
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ب)  $\lim_{x \rightarrow 3} [-x^2 + 9a]$  سوال 10

در صورتی که طرف پایین از 9

الف)  $\lim_{x \rightarrow 2} \frac{|x-2|}{x^2 - \sqrt{x} + 12}$  سوال 11

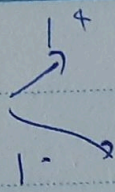
$\begin{matrix} \mu^+ \\ \mu^- \end{matrix} \rightarrow \frac{0}{(2-1)(2-1)} = 0$

$\begin{matrix} \mu^+ \\ \mu^- \end{matrix} \rightarrow \frac{-x+2}{(x-1)(x-1)} = -1$

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Date: \_\_\_\_\_

$$\rightarrow) \lim_{x \rightarrow 1} \frac{x - [x]}{x^2 - 1}$$



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

$$\frac{x}{(x-1)(x+1)} = \frac{1}{0^-} = -\infty$$