

Subject:

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1 (الف)  $\lim_{x \rightarrow 2^+} f(x-3) = 1-3 = \infty$       (ب)  $\lim_{x \rightarrow 2^-} f(x-3) = 1-3 = \infty$       (١)

3 (الف)  $\lim_{x \rightarrow 2^+} f^4[x] - 3 = 1-3 = \infty$       (ب)  $\lim_{x \rightarrow 2^-} f^4[x] - 3 = 1-3 = 1$       (٢)

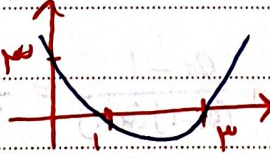
5 (الف)  $\lim_{x \rightarrow 2^+} [f(x-3)] = \infty$       (ب)  $\lim_{x \rightarrow 2^-} [f(x-3)] = 1$       (٣)

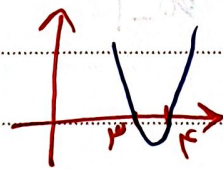
7 (الف)  $[\lim_{x \rightarrow 2^+} f(x-3)] = \infty$       (ب)  $[\lim_{x \rightarrow 2^-} f(x-3)] = \infty$       (٤)

9 (الف)  $\lim_{x \rightarrow 3} \frac{f(x-3)}{x-3} \xrightarrow{3^+} \frac{9}{0^+} = +\infty$       (٥)

11 (ب)  $\lim_{x \rightarrow 3} \frac{f(x-3)}{(x-3)^2} \xrightarrow{\text{درجه درجه}} \frac{9}{0^+} = +\infty$   
 لے بہ کا طہ تو ان درجہ حاملہ مردوں نہ برابر است.

13 (الف)  $\lim_{x \rightarrow 3} \frac{f(x-3)}{\sqrt{x-3}} \xrightarrow{3^+} \frac{9}{\sqrt{0^+}} = +\infty$       (٦)  
 $\xrightarrow{3^-} \frac{9}{\sqrt{0^-}} = \text{ن.ع}$

17 (ب)  $\lim_{x \rightarrow 3} \frac{f(x-3)}{\sqrt{x^2 - 4x + 3}}$    $\xrightarrow{3^+} \frac{9}{\sqrt{0^+}} = +\infty$   
 $\xrightarrow{3^-} \frac{9}{\sqrt{0^-}} = \text{ن.ع}$

20 (الف)  $\lim_{x \rightarrow 3} \frac{f(x-3)}{x^2 - \sqrt{x+1}}$    $\xrightarrow{3^+} \frac{9}{0^-} = -\infty$       (٧)  
 $\xrightarrow{3^-} \frac{9}{0^+} = +\infty$

23 (ب)  $\lim_{x \rightarrow 3} \frac{f(x-3)}{[x-3]}$   $\xrightarrow{3^+} \frac{9}{[0^+]} = \text{ن.ع}$   
 $\xrightarrow{3^-} \frac{9}{[0^-]} = -9$

# سببنا فدانا

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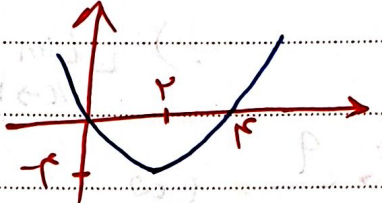
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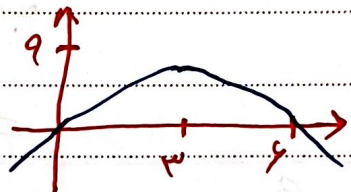
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الف)  $\lim_{x \rightarrow 3} [3x] + [-2x] \xrightarrow{3^+} [3^+] + [-2^-] = 1$  (A)  
 $\xrightarrow{3^-} [3^-] + [-2^+] = 1$

ب)  $\lim_{x \rightarrow -6} [-2x] + [3x] \xrightarrow{-6^+} [-2^+] + [3^-] = 11$   
 $\xrightarrow{-6^-} [-2^-] + [3^+] = 11$

الف)  $\lim_{x \rightarrow 2} [x^2 - 2x] \Rightarrow$    $\lim_{x \rightarrow 2} [x^2 - 2x] = -2$  (A)

ب)  $\lim_{x \rightarrow 3} [9x - x^2] \Rightarrow$    $\lim_{x \rightarrow 3} [9x - x^2] = 18$

الف)  $\lim_{x \rightarrow 2} \frac{|x-2|}{x^2 - 3x + 2} = \frac{0}{0}$  مبهم  $\Rightarrow$   $\frac{|x-2|}{(x-1)(x-2)}$   $\xrightarrow{2^+} \frac{1}{2-1} = 1$  (A)  
 $\xrightarrow{2^-} \frac{-1}{2-1} = -1$

ب)  $\lim_{x \rightarrow 1} \frac{x - [x]}{x^2 - 1} = \frac{0}{0}$  مبهم  $\xrightarrow{1^+} \frac{x-1}{(x-1)(x+1)} = \frac{1}{x+1} = \frac{1}{2}$   
 $\xrightarrow{1^-} \frac{x}{x^2-1} = \frac{1}{0^-} = -\infty$

