

اینجا در مورد بازه و صفت B تکیه کنید

18/5

08:00

Ⓐ $\lim_{x \rightarrow \mu^+} f(x) - \mu = 0$

ب $\lim_{x \rightarrow \mu} f(x) - \mu = 0$

09:00

Ⓑ $\lim_{x \rightarrow \mu^+} f(x) - \mu = 0$

ب $\lim_{x \rightarrow \mu^-} f(x) - \mu = f(1) - \mu = 1$

10:00

Ⓒ $\lim_{x \rightarrow \mu^+} [f(x) - \mu] = [0^+] = 0$

ب $\lim_{x \rightarrow \mu^-} [f(x) - \mu] = [0^-] = \mu$

11:00

Ⓓ $[\lim_{x \rightarrow \mu^+} f(x) - \mu] = 0$

ب $[\lim_{x \rightarrow \mu^-} f(x) - \mu] = 0$

12:00

Ⓔ $\lim_{x \rightarrow \mu} \frac{f(x) - \mu}{x - \mu}$

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

→ *diverge*

13:00

$\lim_{x \rightarrow \mu} \frac{f(x) - \mu}{(x - \mu)^2} = \frac{0}{0^+} = +\infty$ *diverge*

14:00

Ⓕ $\lim_{x \rightarrow \mu} \frac{f(x) - \mu}{\sqrt{x - \mu}}$

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

→ *diverge*

15:00

Ⓖ $\lim_{x \rightarrow \mu} \frac{f(x) - \mu}{\sqrt{x^2 - f(x) + \mu}}$

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

→ *diverge*

16:00

① اول $\lim_{x \rightarrow 2} \frac{\sqrt{x-1} - 1}{x^2 - 5x + 11} = \frac{0^+}{0^-} = -\infty$
 $\lim_{x \rightarrow 2} \frac{\sqrt{x-1} - 1}{x^2 - 5x + 11} \xrightarrow{\bar{0}^+} \frac{0}{0^+} = +\infty$ *مردمان*



۰۹:۰۰

ب $\lim_{x \rightarrow 2} \frac{\sqrt{x-1} - 1}{(x-2)} = \frac{0}{0} = 0$ *مردمان*
 $\lim_{x \rightarrow 2} \frac{\sqrt{x-1} - 1}{(x-2)} \xrightarrow{\bar{0}^-} \frac{0}{-1} = -0$ *مردمان*

۱۰:۰۰

② $\lim_{x \rightarrow 2} [2x] + [-1x] = \frac{0^+}{0^+} 9 + (-9) = 0$ *مردمان*
 $\lim_{x \rightarrow 2} [2x] + [-1x] \xrightarrow{\bar{0}^+} 8 + (-9) = -1$ *مردمان*

۱۱:۰۰



ب $\lim_{x \rightarrow 2} [-1x] + [1x] = \frac{0^+}{0^+} -12 + 9 = -3$ *مردمان*
 $\lim_{x \rightarrow 2} [-1x] + [1x] \xrightarrow{\bar{0}^+} -12 + 0 = -12$ *مردمان*
 $2x - 12 = 11$
 $2x - 12 = 11$

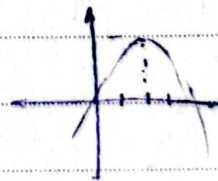
۱۲:۰۰

③ اول $\lim_{x \rightarrow 2} [2^x - 1x] = \frac{0^+}{0^+} [-1] = -1$ *مردمان*
 $\lim_{x \rightarrow 2} [2^x - 1x] \xrightarrow{\bar{0}^+} [-1^+] = -1$ *مردمان*

۱۳:۰۰



ب $\lim_{x \rightarrow 2} [4x - x^2] = \frac{0^+}{0^+} [9^-] = 9$ *مردمان*
 $\lim_{x \rightarrow 2} [4x - x^2] \xrightarrow{\bar{0}^-} [9^-] = 9$



۱۵:۰۰

④ اول $\lim_{x \rightarrow 2} \frac{|x-1|}{(x-2)(x-1)} = \frac{0^+}{0^+} \frac{(x-1)}{(x-2)(x-1)} = \frac{1}{1} = 1$ *مردمان*
 $\lim_{x \rightarrow 2} \frac{|x-1|}{(x-2)(x-1)} \xrightarrow{\bar{0}^-} \frac{-(x-1)}{(x-2)(x-1)} = \frac{-1}{1} = -1$ *مردمان*

۱۶:۰۰



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

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