

لیت بنویس

توقع: باز هم در حد A

انتخاب → در نظر

$$\textcircled{1} \lim_{x \rightarrow \mu^+} f(x) = \mu \quad \textcircled{1}$$

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

$$\textcircled{2} \lim_{x \rightarrow \mu^+} f(x) - \mu = \textcircled{1}$$

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

چون داخل برآید، خود کرد (2) نسبت به 0 نه به 0

$$\textcircled{3} \lim_{x \rightarrow \mu} [f(x) - \mu] \rightarrow [0/0] = \textcircled{1}$$

$$\textcircled{4} \lim_{x \rightarrow \mu} [f(x) - \mu] \rightarrow [0/0] = \textcircled{4}$$

$$\textcircled{5} \left[ \lim_{x \rightarrow \mu^+} f(x) - \mu \right] = \textcircled{1}$$

$$\left[ \lim_{x \rightarrow \mu^-} f(x) - \mu \right] = \textcircled{1}$$

$$\textcircled{6} \lim_{x \rightarrow \mu} \frac{f(x) - \mu}{x - \mu} \rightarrow \frac{0}{0}$$

صورت در حد 0 و مخرج صفر تریب =

$$\lim_{x \rightarrow \mu} \frac{f(x) - \mu}{(x - \mu)^2} \rightarrow \frac{0}{0}$$

صورت 0 و مخرج 0، چون توان 2 به 1 می رسد +

$$\textcircled{7} \lim_{x \rightarrow \mu} \frac{f(x) - \mu}{\sqrt{x - \mu}} \rightarrow \frac{0}{0}$$

$$\lim_{x \rightarrow \mu} \frac{f(x) - \mu}{\sqrt{x^2 - \mu x + \mu}} \rightarrow \frac{0}{0}$$

$$\textcircled{8} \lim_{x \rightarrow \mu} \frac{f(x) - \mu}{\mu^2 - \mu x + \mu} \rightarrow \frac{0}{0}$$

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

$$\textcircled{9} \lim_{x \rightarrow \mu} [f(x)] + [-\mu]$$

$$\lim_{x \rightarrow -\mu} [-f(x)] + [f(x)]$$

$$\mu^+ \rightarrow \mu_1 \rightarrow [a, \mu] + [-\mu, \mu] \rightarrow \textcircled{1}$$

$$-\mu^+ \rightarrow -\mu_1 \rightarrow [-\mu, \mu] + [\mu, \mu] \rightarrow \textcircled{1}$$

$$\mu^- \rightarrow \mu_2 \rightarrow [\mu, \mu] + [-\mu, \mu] \rightarrow \textcircled{1}$$

$$-\mu^- \rightarrow -\mu_2 \rightarrow [\mu, \mu] + [-\mu, \mu] \rightarrow \textcircled{1}$$

①  $\lim_{n \rightarrow r} [n^r - rn]$  ...

$r^+ \rightarrow r/1 \Rightarrow [r/1 - 1/r] = -r$   
 $r^- \rightarrow r/a \Rightarrow [r/1 - 1/r] = -r$

$\lim_{n \rightarrow \infty} [4n - n^2]$  ...

$\infty^+ [1/4 - 4/4] = 1$   
 $\infty^- [1/4 - 1/4] = 1$

②  $\lim_{n \rightarrow r} \frac{|n-r|}{n^r - rn + r}$  ...

$r^+ \rightarrow \frac{n-r}{(n-1)(n-r)} \Rightarrow 1$   
 $r^- \rightarrow \frac{-n+r}{(n-1)(n-r)} \Rightarrow -1$

$\lim_{n \rightarrow 1} \frac{n - [n]}{n^r - 1}$

$1^+ \rightarrow \frac{n-r}{(n+1)(n-r)} = \frac{1}{r}$   
 $1^- \rightarrow \frac{n}{n^r - 1} \rightarrow -\infty$