

← دقیقہ کلاس

$$\lim_{x \rightarrow 2^+} \frac{1}{x-2} = \infty$$

$$\lim_{x \rightarrow 2^-} \frac{1}{x-2} = -\infty$$

$$\lim_{x \rightarrow 2^+} \frac{1}{[x]-2} = \infty$$

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

$$\lim_{x \rightarrow 2^+} \frac{1}{\lfloor x-2 \rfloor} = \infty$$

$$\lim_{x \rightarrow 2^-} \frac{1}{\lfloor x-2 \rfloor} = \frac{1}{-1} = -1$$

$$\left[\lim_{x \rightarrow 2^+} \frac{1}{x-2} \right] = \infty$$

$$\left[\lim_{x \rightarrow 2^-} \frac{1}{x-2} \right] = \infty$$

$$\lim_{x \rightarrow 2} \frac{1}{x-2} \begin{cases} \xrightarrow{2^+} \frac{1 \times 2 - 2}{2^+ - 2} = \frac{0}{0^+} = +\infty \\ \xrightarrow{2^-} \frac{1 \times 2 - 2}{2^- - 2} = \frac{0}{0^-} = -\infty \end{cases}$$

$$\lim_{n \rightarrow \infty} \frac{\kappa n - \mu}{(n - \mu)^r} \begin{cases} \xrightarrow{\mu^+} \frac{A}{(o^+)^r} = \infty^+ \\ \xrightarrow{\mu^-} \frac{A}{(o^-)^r} = \infty^+ \end{cases}$$

$$\lim_{n \rightarrow \infty} \frac{\kappa n - \mu}{\sqrt{n - \mu}} \begin{cases} \xrightarrow{\mu^+} \frac{A}{\sqrt{o^+}} = \infty^+ \\ \xrightarrow{\mu^-} \frac{A}{\sqrt{o^-}} = \infty^- \end{cases}$$

$$\lim_{n \rightarrow \infty} \frac{\kappa n - \mu}{\sqrt{(n - \mu)(n + 1)}} \begin{cases} \xrightarrow{\mu^+} \frac{A}{\sqrt{o^+ \times \kappa}} = \infty^+ \\ \xrightarrow{\mu^-} \frac{A}{\sqrt{o^- \times \kappa}} = \infty^- \end{cases}$$

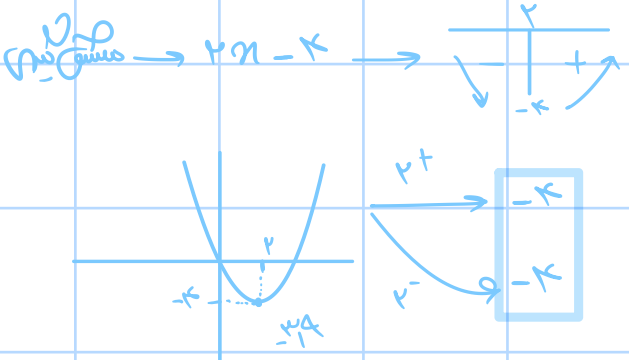
$$\lim_{n \rightarrow \infty} \frac{\kappa n - \mu}{\frac{n^2 - \nu n + 1}{(n - \mu)(n - \kappa)}} \begin{cases} \xrightarrow{\mu^+} \frac{A}{o^+ x - 1} = \infty^- \\ \xrightarrow{\mu^-} \frac{A}{o^- x - 1} = \infty^+ \end{cases}$$

$$\lim_{n \rightarrow \infty} \frac{\kappa n - \mu}{\frac{[n - \mu]}{[0]}} \begin{cases} \xrightarrow{\mu^+} \frac{A}{[o^+]} = \infty^- \\ \xrightarrow{\mu^-} \frac{A}{[o^-]} = -\infty \end{cases}$$

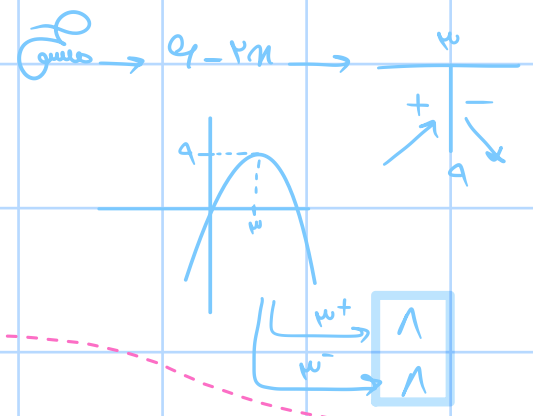
$$\lim_{n \rightarrow \infty} [n] + [-n] \begin{cases} \xrightarrow{\mu^+} \frac{[n_x \mu, 1]}{A} + \frac{[-n_x \mu, 1]}{-V} = \mu \\ \xrightarrow{\mu^-} \frac{[n_x \mu, 1]}{A} + \frac{[-n_x \mu, 1]}{-V} = \mu \end{cases}$$

$$\lim_{n \rightarrow \infty} [-n_x \mu] + [n_x \mu] \begin{cases} \xrightarrow{\mu^+} \frac{-\mu + [-n_x - \mu, 1]}{[n_x - \mu, 1]} = \mu \\ \xrightarrow{\mu^-} \frac{-\mu + [-n_x - \mu, 1]}{[n_x - \mu, 1]} = \mu \end{cases}$$

$$\lim_{n \rightarrow \infty} [x^n - \sqrt[n]{n}]$$



$$\lim_{n \rightarrow \infty} [\sqrt[n]{n} - x^n]$$



$$\lim_{n \rightarrow \infty} \frac{|n - \sqrt[n]{n}|}{n^n - \sqrt[n]{n+1}} = \frac{0}{0} \text{ (L'Hôpital)}$$

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

$$\begin{aligned} \xrightarrow{+} & \frac{n - \sqrt[n]{n}}{(n - \sqrt[n]{n})(n - 1)} = \frac{1}{n - 1} = 1 \\ \xrightarrow{-} & \frac{-n + \sqrt[n]{n} - 1}{(n - \sqrt[n]{n})(n - 1)} = \frac{-1}{n - 1} = -1 \end{aligned}$$

$$\begin{aligned} \xrightarrow{+} & \frac{0}{0} \xrightarrow{\text{L'Hôpital}} \frac{n - 1}{(n - 1)(n + 1)} = \frac{1}{n + 1} = \frac{1}{2} \\ \xrightarrow{-} & \frac{n}{(n - 1)(n + 1)} = \frac{1}{-\infty \times 2} = -\infty \end{aligned}$$

