

$\gamma_0$

$\leftarrow \frac{d}{dx} \ln \left| \frac{p(x)}{q(x)} \right|$

$$\lim_{x \rightarrow \mu^+} \frac{f(x)}{g(x)} = \omega$$

$$\lim_{x \rightarrow \mu^-} \frac{f(x)}{g(x)} = \omega$$

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$$\lim_{x \rightarrow \mu} \frac{f(x)}{g(x)} \begin{cases} \xrightarrow{\mu^+} \frac{f(\mu^+)}{g(\mu^+)} = \frac{a}{0^+} = +\infty \\ \xrightarrow{\mu^-} \frac{f(\mu^-)}{g(\mu^-)} = \frac{a}{0^-} = -\infty \end{cases}$$

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

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

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

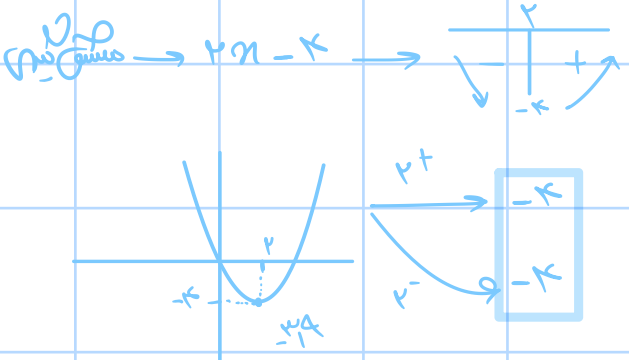
$$\lim_{n \rightarrow \infty} \frac{\kappa n - \mu}{\frac{n^2 - \nu n + \mu}{(n - \mu)(n - \kappa)}} \begin{cases} \xrightarrow{\mu^+} \frac{A}{o^+ x - 1} = \infty^- \\ \xrightarrow{\mu^-} \frac{A}{o^- x - 1} = \infty^+ \end{cases}$$

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

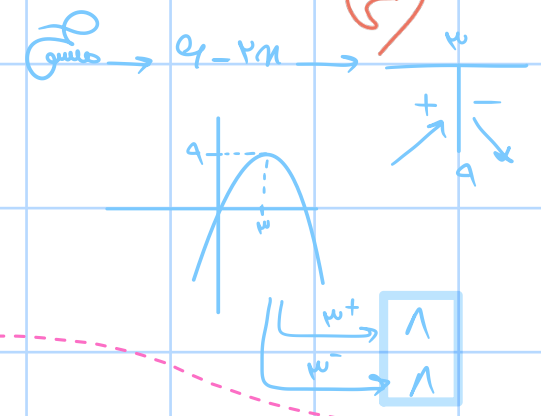
$$\lim_{n \rightarrow \infty} [\mu n] + [-\mu n] \begin{cases} \xrightarrow{\mu^+} \frac{[\mu x \mu, 1] + [-\mu x \mu, 1]}{A} = \mu \\ \xrightarrow{\mu^-} \frac{[\mu x \mu, 1] + [-\mu x \mu, 1]}{A} = \mu \end{cases}$$

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

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



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



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

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

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

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

