

۱۹، ۲۵ آف نیر ☆ لفظ واضح تر عکس نبیر!

$$\lim_{x \rightarrow 0} \left[\frac{1}{x} \right] = \lim_{x \rightarrow 0} \left[\frac{1}{x} \right] \rightarrow -\infty \rightarrow -\infty \rightarrow -\infty$$

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$$\lim_{x \rightarrow 0} \frac{\log \left[\frac{1}{x} \right]}{\log \left[\frac{1}{x} \right]} = \frac{-\infty - \infty}{-\infty - \infty} = \frac{-1}{-1} = 1$$

$$\lim_{n \rightarrow 1^+} \frac{\sin n}{1 + \cos n} = \lim_{n \rightarrow 1^+} \frac{1 - \cos n}{1 + \cos n} = 1 - \cos n = 1 - (-1) = 2$$

$$\lim_{x \rightarrow 1^+} \frac{\sin x}{\cos x} = \frac{1 - \cos x}{1 + \cos x} = \frac{(1 - \cos x)(1 + \cos x)}{1 + \cos x}$$

$$\lim_{x \rightarrow 1^+} 1 - \cos x = 1 - \cos 1 = 1 - (-1) = 2$$

$$\lim_{x \rightarrow -1} \frac{\sqrt{x+1} + \sqrt{x+5}}{\sqrt{x+1}} = \frac{\sqrt{-1+1} + \sqrt{-1+5}}{\sqrt{-1+1}} = \frac{0 + 2}{0} = \frac{2}{0} = \infty$$

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

$$x < -\frac{1}{r} \rightarrow x^r > \frac{1}{\varepsilon} \rightarrow \frac{1}{x^r} < \varepsilon \rightarrow \left[\frac{x^r}{x^r} \right] = 11$$

$$\hookrightarrow -\frac{1}{x^r} > -\varepsilon \rightarrow \left[\frac{-x^r}{x^r} \right] = -\varepsilon$$

$$\lim_{n \rightarrow (-\frac{1}{r})^-} \frac{1 \cdot n - 2 + 11}{14n - 1} = \lim_{n \rightarrow (-\frac{1}{r})^-} \frac{1 \cdot n + 9}{14n - 1} = \frac{1}{0^-} = -\infty$$

استمرار باقی

$$\lim_{x \rightarrow 0} \frac{a + \sqrt{bx+c}}{x} \stackrel{\frac{0}{0}}{\rightarrow} \frac{0}{0} \rightarrow a + \sqrt{bx+c} \rightarrow a + \sqrt{c} \rightarrow \sqrt{c} - a$$

$$\frac{b}{\sqrt{c}} \stackrel{\frac{0}{0}}{\rightarrow} \frac{0}{0} \rightarrow \frac{b}{\sqrt{c}} \rightarrow \frac{ab}{c} = \frac{-\sqrt{c} + \sqrt{c}}{c} \stackrel{\frac{0}{0}}{\rightarrow} \frac{0}{c}$$

$$\lim_{x \rightarrow -\pi} \frac{f(x) \left[\frac{x}{c} \right]}{\sin x} \stackrel{\frac{0}{0}}{\rightarrow} \frac{0}{0} \rightarrow \left[\frac{x}{c} \right] \rightarrow \sin x \rightarrow \frac{x}{c} \rightarrow \sin x \rightarrow \frac{x}{c}$$

$$x \rightarrow -\pi \rightarrow \left[\frac{x}{c} \right] \rightarrow -c \rightarrow \sin x \rightarrow 0 \rightarrow \frac{x}{c} \rightarrow \frac{x}{c}$$

$$\frac{x}{c} < b < \pi \rightarrow \left[-b \right] \rightarrow \frac{x}{c}$$

$$\lim_{x \rightarrow n} \frac{b\sqrt{x} - \sqrt{a} - b}{ax - b} = \frac{b\sqrt{n} - \sqrt{a} - b}{an - b} \rightarrow na - b \rightarrow na - b$$

در صورتی که باقی مانده ۰، ۱۲، ۱۳

$$\frac{9-n}{9n-8n} = \frac{9-n}{n}$$

$$\Rightarrow \frac{9-n}{n(9-n)} \stackrel{\frac{0}{0}}{\rightarrow} \frac{1}{9}$$