

ہر جاہل

$$\lim_{x \rightarrow \sqrt[n]{c}} \frac{x}{x^n + a} = +\infty \rightarrow \frac{\sqrt[n]{c}}{\sqrt[n]{c^n} + a} = +\infty \rightarrow \sqrt[n]{c} \quad a + b \sqrt[n]{c} = 0 \quad (4)$$

$$\lim_{x \rightarrow \frac{1}{\sqrt{2}}} \frac{[-x] + 0}{\left| \frac{\sqrt{2}}{x} \right| + 0} = -\infty - \frac{0-1}{\left| \frac{1}{\sqrt{2}} + 0 \right| + 0} = -\infty + \left| \frac{1}{\sqrt{2}} \right| + 0 = 0 \quad (5)$$

$$\lim_{x \rightarrow -\frac{1}{e}^+} \frac{f(x) - \left[-\frac{1}{e^2}\right]}{x - \left[-\frac{1}{e}\right]} \rightarrow \lim_{x \rightarrow -\frac{1}{e}^+} \frac{14x + 9}{4x + 1} \rightarrow \frac{1}{0^+} = +\infty \quad (16)$$

$$\lim_{x \rightarrow 1} \frac{x^3 + \log x - 19}{1 + \sqrt{x}} = \frac{(20+1)(2+1)}{4(1+\sqrt{2})} = \frac{(\sqrt{2}+1)(\sqrt{2}-1)(\sqrt{2}+1)(2+1)}{4(1+\sqrt{2})} \quad (9)$$

$$\lim_{x \rightarrow 0} \frac{\sqrt{1+x} - \sqrt{1-x}}{1-x} \rightarrow \frac{\sqrt{1+x} + \sqrt{1-x}}{\sqrt{1+x} + \sqrt{1-x}} = \frac{1+x - (1-x)}{\sqrt{1+x} + \sqrt{1-x}} = \frac{2x}{\sqrt{1+x} + \sqrt{1-x}}$$

$$\frac{Kx}{|x| - r} = -r \Rightarrow K \frac{x}{r - x}$$

$$\lim_{x \rightarrow \infty} \frac{x^2 \sqrt{x-2a} + x^2 \sqrt{x} - \sqrt{x^2 x}}{\sqrt{x^2 - 9a^2}} \rightarrow \frac{0}{0} \rightarrow \lim_{x \rightarrow \infty} \frac{x^2 + x^2 \sqrt{x} - x^2 \sqrt{x}}{\sqrt{x^2 - 9a^2}} \quad (9)$$

$$= \frac{x^2}{\sqrt{9a^2}} = \frac{x^2 (x-2a)}{\sqrt{x^2 - 9a^2} \sqrt{x^2 - 9a^2}} = 2$$

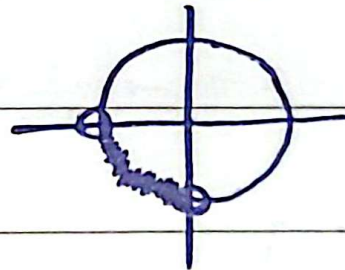
$$\frac{x^2}{\sqrt{9a^2}}$$

$$\lim_{x \rightarrow -1} \frac{1 - K [x]}{2e^x - 1} \begin{cases} + \rightarrow \frac{1+K}{x^2-1} = \frac{1+K}{0^-} = -\infty \\ - \rightarrow \frac{1+x^2}{x^2-1} = \frac{1+K}{0^+} = +\infty \end{cases} \quad 10$$

$$\rightarrow 1+K > 0 \rightarrow K > -1$$

$$\rightarrow 1+K < 0 \rightarrow K < -1$$

$$-1 < K < -\frac{1}{p} \begin{cases} -K < K < -\frac{K}{p} \\ -1 < \cos K < 0 \end{cases}$$



رابطہ