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

$$=\frac{1+1}{1^2-2\cdot 1+1}=\frac{2}{0}=\infty$$
 me con quole segno?

$$\lim_{x \to 1} \frac{x+1}{(x-1)^2} = \frac{2}{0^+} = +\infty$$

$$\lim_{x \to 0^{-}} \frac{1}{x^{3}} = \frac{1}{0^{-}} = -\infty \quad [-\infty]$$

$$\lim_{x \to +\infty} \left(e^x + \ln x \right) = \left[+\infty \right]$$

$$\lim_{x \to -7^+} \frac{\sqrt{2-x} + x}{7+x} = [-\infty]$$

$$\lim_{x \to 0^{+}} \frac{\ln(2 + \sin x)}{\sin x} = [+\infty]$$

$$= \frac{\ln(2 + o)}{o^{+}} = \frac{\ln 2}{o^{+}} = +\infty$$

$$\lim_{x \to +\infty} \frac{e^{-x}}{x^{2} + 2x} = [0^{+}]$$

$$\lim_{x \to -\infty} \frac{-2}{x^4} = \frac{-2}{+\infty} = 0^- \quad [0]$$

$$\lim_{\underline{x} \to +\infty} (\sqrt{x^2 + 1} - \sqrt{x^2 - 4}) = +\infty - \infty$$
 [0]

$$= \lim_{x \to +\infty} \left(\sqrt{x^{2}+1} - \sqrt{x^{2}-4} \right) \cdot \frac{\sqrt{x^{2}+1} + \sqrt{x^{2}-4}}{\sqrt{x^{2}+1} + \sqrt{x^{2}-4}} =$$

$$= \lim_{x \to +\infty} \frac{x^2 + 1 - x^2 + 4}{\sqrt{x^2 + 1} + \sqrt{x^2 - 4}} = \frac{5}{+\infty + \infty} = \frac{5}{+\infty} = 0$$

$$\lim_{x \to -\infty} \frac{-x + \sqrt{x^2 - 8}}{6x + 7} = \frac{+\infty}{-\infty} \quad \text{F.I.} \quad \begin{bmatrix} -\frac{1}{3} \end{bmatrix} \quad |x| = \begin{cases} \times & x \times 20 \\ -x & x \times 40 \end{cases}$$

$$= \lim_{x \to -\infty} \frac{-x + \sqrt{x^2 + 8}}{6x + 7} = \lim_{x \to -\infty} \frac{-x + |x| \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x + |x| \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x + |x| \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x + |x| \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2}}}{6x + 7} = \lim_{x \to -\infty} \frac{-x - \sqrt{1 - \frac{8}{x^2$$

