Calcula

$$\lim_{x \to 0} \left(\frac{x^2 + 3}{x^3} - \frac{1}{x} \right) \qquad \qquad \lim_{x \to 1} \left[\frac{2}{(x - 1)^2} - \frac{1}{x(x - 1)} \right]$$

a)
$$\left(\frac{x^2+3}{x^3}-\frac{1}{x}\right)=\frac{3}{0}-\frac{1}{0}=\left(20-20\right)=\frac{3}{0}$$

$$= \frac{1}{x_{10}} \frac{x_{13}^2 - x_{10}^2}{x_{10}^3} = \frac{1}{x_{10}} \frac{3}{x_{10}^3} = \frac{3}{0} = \infty$$

estudiar limites laterales

$$x \to 0^-$$
: $\frac{1}{x^5} = \frac{3}{0^-} = -\infty$ $0^- < 0$

como L fex) + L fexi = No existe limite

5)
$$\frac{2}{(x-1)^2} - \frac{1}{(x-1)^2} = \frac{1}{0} - \frac{1}{10} = \frac{1}{0} - \frac{1}{10} = \frac{1}{0} = \frac{1}{0}$$

$$= 2 \frac{2x - (x-1)}{(x-1)^2 \cdot x} = 2 \frac{x+1}{(x-1)^2 \cdot$$

$$= \frac{2}{(x-1)^{\frac{1}{2}} \times 1} = \frac{2}{0.1} = \infty$$

0To: comprebar limite, laterale,

$$\frac{2}{(x-1)^{2} \times 4^{1}} = \frac{1^{2} + 1^{2}}{(x-1)^{2} \times 4^{2}} = \frac{1^$$