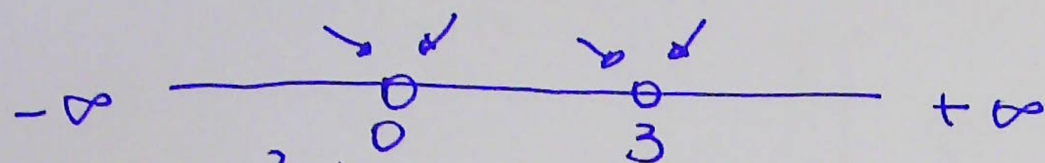


1) Dominio $x^2 - 3x \neq 0$ $\begin{cases} x \neq 0 \\ x \neq 3 \end{cases}$

2



$$\lim_{x \rightarrow +\infty} e^{\frac{x^2+1}{x^2-3x}} = e^1 = e \quad y = e \text{ ASINTOTO ORIZZONTALE}$$

$$\lim_{x \rightarrow -\infty} e^{\frac{x^2+1}{x^2-3x}} = e^{\frac{1}{0^-}} = e^{-\infty} = 0$$

$$\lim_{x \rightarrow 0^+} e^{\frac{x^2+1}{x^2-3x}} = e^{\frac{1}{0^+}} = e^{+\infty} = +\infty \Rightarrow x=0 \text{ ASINTOTO VERTICALE DX}$$

$$\lim_{x \rightarrow 0^-} e^{\frac{x^2+1}{x^2-3x}} = e^{\frac{10}{0^+}} = +\infty$$

$$x \rightarrow 3^+ \quad x=3 \text{ AS. VERTICALE}$$

$$\lim_{x \rightarrow 3^-} f(x) = e^{\frac{10}{0^-}} = -\infty$$

~~ASINTOTO OBLIQUO~~

— 0 —