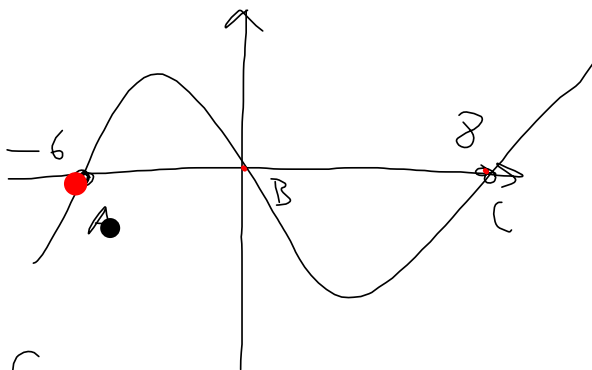


$$f(x) = \frac{x - 3x^3}{x^2 + 2x^4}$$

$$f(-x) = \frac{(-x) - 3(-x)^3}{(-x)^2 + 2(-x)^4} = \frac{-x + 3x^3}{x^2 + 2x^4} = - \left(\frac{x - 3x^3}{x^2 + 2x^4} \right)$$

INTERSEZIONE ASSE X



$$A(-6, \underline{0})$$

$$B(\underline{0}, 0)$$

$$C(\underline{8}, \underline{0})$$

$$y = 0$$

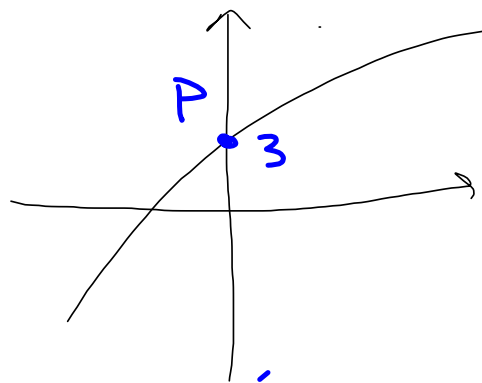
$$\begin{cases} y = 0 \\ y = \frac{3x - 9}{x^2 + 3x + 2} \end{cases}$$

$$\begin{cases} y = 0 \\ \frac{3x - 9}{x^2 + 3x + 2} = 0 \end{cases}$$

$$\begin{cases} y = 0 \\ 3x - 9 = 0 \end{cases}$$

$$\begin{cases} y = 0 \\ x = 3 \end{cases}$$

INTERSEZIONE ASSE Y



$P(0,3)$

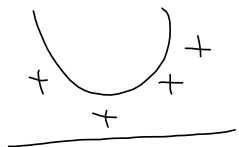
$$\begin{cases} X=0 \\ Y=-9 \end{cases}$$

$$\begin{cases} X=0 \\ Y = \frac{3X-9}{X^2+3X+2} \end{cases}$$

$$y = \frac{x^2 - 16}{x^2 + x + 6} \quad D: \mathbb{R}$$

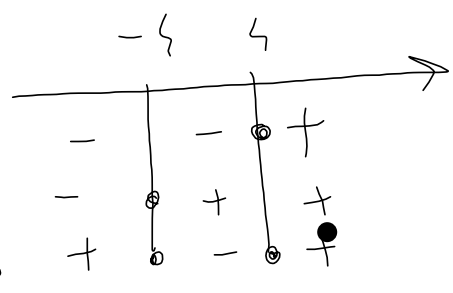
$$\Delta = 1 - \frac{24}{6} = -\frac{23}{1} = -23$$

~~$x^2 + x + 4$~~
 ~~$x^2 + x + 2$~~
 ~~$x^2 + 3x + 2$~~

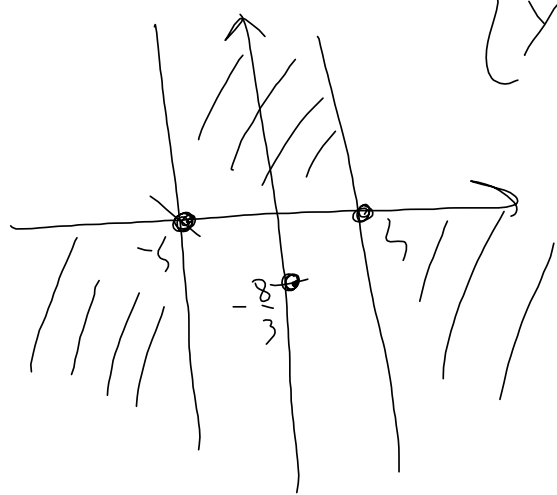
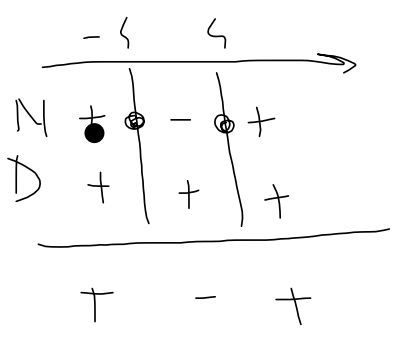


$$N: x^2 - 16 \geq 0$$

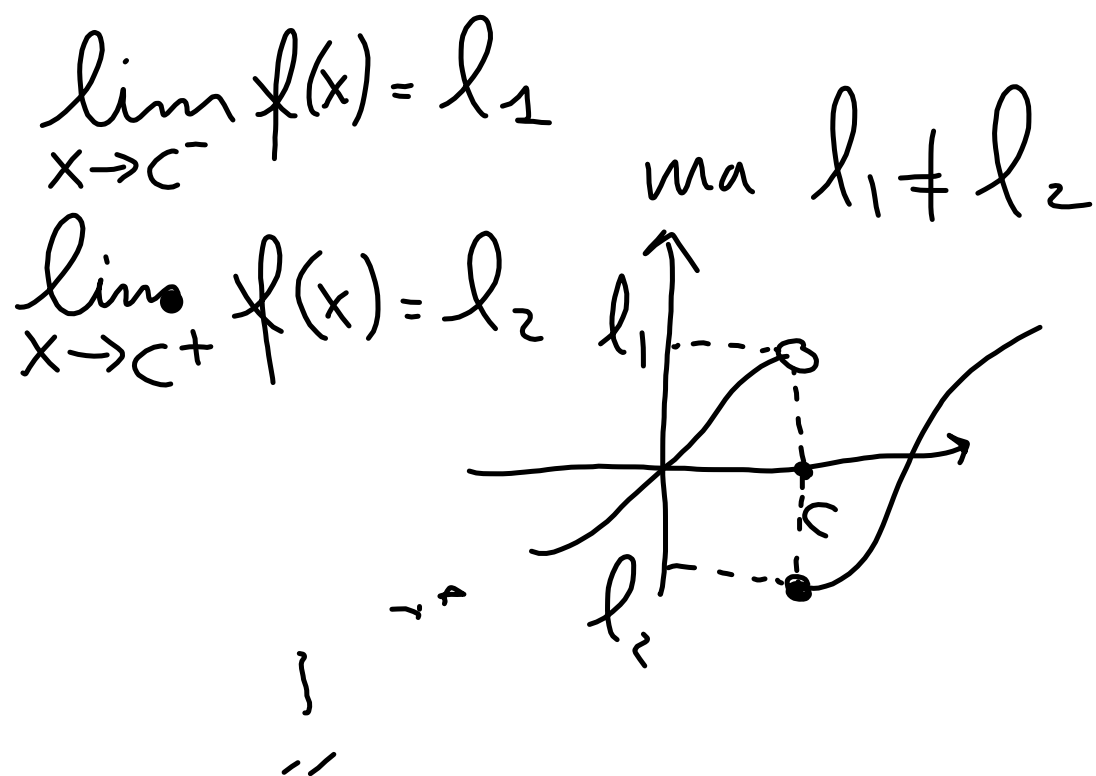
$$(x+4)(x-4) \geq 0$$



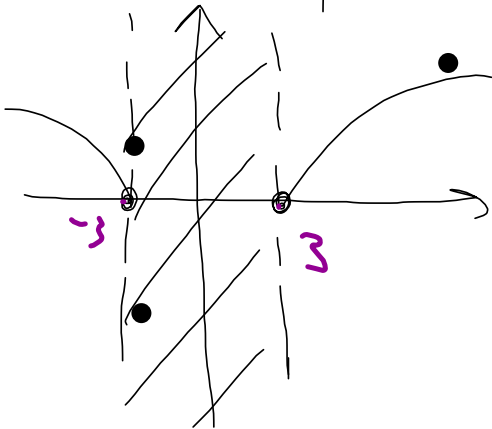
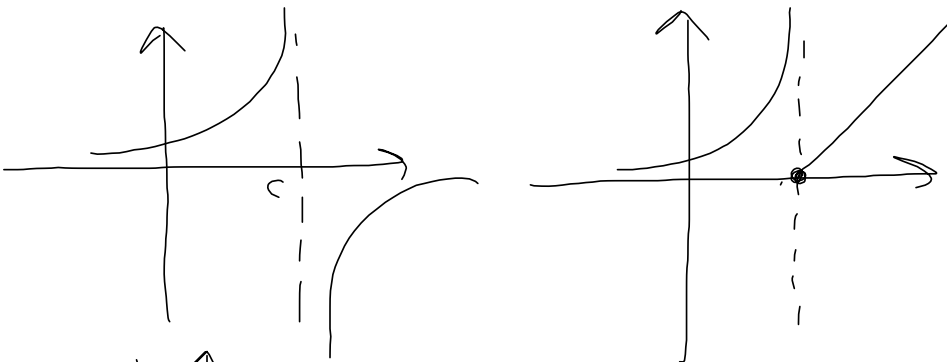
$$\begin{cases} x = 0 \\ y = \frac{x^2 - 16}{x^2 + x + 6} \end{cases}$$



$$\begin{cases} x = 0 \\ y = -\frac{8}{3} \end{cases}$$



Casi 2° SPECIE



$$\lim_{x \rightarrow 3^+} f(x) = 0$$

$$\lim_{x \rightarrow 3^-} f(x) = \text{N.E.}$$

} 2° SPECIE.