

b; c

$$m_{\infty} \left( -2; -\frac{1}{3} \right)$$

 $(2x-5)$ 

$$f(x) = \frac{x^2 + bx + c}{x^2 - 5x + 4}$$

$$f'(x) = \frac{(2x+b)(x^2 - 5x + 4) - (x^2 + bx + c)}{(x^2 - 5x + 4)^2}$$

$$\left\{ \begin{array}{l} -\frac{1}{3} = \frac{4 - 2b + c}{4 + 10 + 4} \\ f'(x) \neq 0 \end{array} \right.$$

$$\left\{ \begin{array}{l} \frac{6 - 2b + c}{18} = 0 \\ D \left( \frac{x^2 + bx + c}{x^2 - 5x + 4} \right) = 0 \end{array} \right.$$

$$\left\{ \begin{array}{l} \frac{6 + 2b + c}{18} = 0 \\ \frac{(-4+b)(18) + (4-2b+c) \cdot (18)}{18^2} = 0 \end{array} \right.$$

$$\left\{ \begin{array}{l} c = 2b - 6 \\ -72 + 18b + 36 - 18b + 18b - 36 = 0 \end{array} \right.$$

$$\left\{ \begin{array}{l} b = \frac{30}{18} = 5 \\ c = 4 \end{array} \right.$$

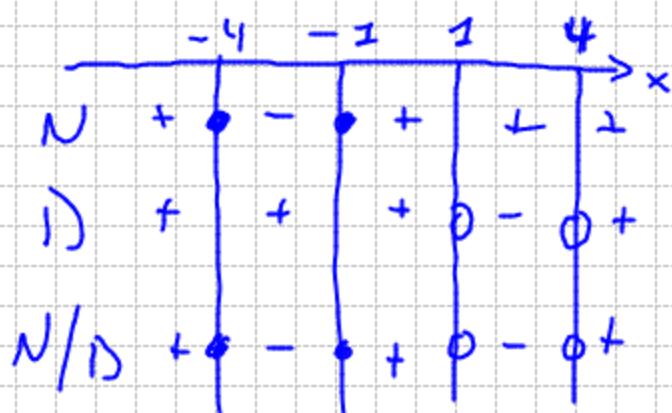
$$\left\{ \begin{array}{l} b = 5 \\ c = 4 \end{array} \right.$$

$$y = \frac{x^2 + 5x + 4}{x^2 - 5x + 4}$$

$$\frac{x^2 + 5x + 4}{x^2 - 5x + 4} \geq 0$$

$$N \geq 0 \Rightarrow x_1/2 = \frac{-5 \pm \sqrt{25 - 26}}{2} = \frac{-5 \pm 1}{2} \quad \left| \begin{array}{l} x_1 = -4 \\ x_2 = -1 \end{array} \right. \quad \begin{array}{c} + \uparrow + \\ - \downarrow - \end{array} \quad \text{S: } (-\infty; -4] \cup [-1; +\infty)$$

$$D > 0 \Rightarrow x_1/2 = \frac{5 \pm \sqrt{25 - 26}}{2} = \left\{ \begin{array}{l} x_1 = 4 \\ x_2 = 1 \end{array} \right. \quad \begin{array}{c} + \uparrow + \\ - \downarrow - \end{array} \quad \text{S: } (-\infty; 1) \cup (4; +\infty)$$



$$f(x) \geq 0 \quad \text{para } x \leq -4 \cup$$

$$\cup -1 \leq x < 1 \cup$$

$$\cup x > 4$$

finire

$$f'(x) \geq 0$$

$$\begin{matrix} - & & + \\ \searrow & & \nearrow \\ f''(x) & + & + \end{matrix}$$