

Esercizi 7

Matematica B

L1

Studio di funzione

$$1) f(x) = \frac{7x+1}{x^2-3x+2}$$

$$\text{Dominio } (-\infty, 1) \cup (1, 2) \cup (2, +\infty)$$

$$x^2-3x+2 \neq 0 \Rightarrow x \neq 1, 2$$

$$\text{Segno } \frac{7x+1}{x^2-3x+2} > 0$$

$$N: 7x+1 > 0 \Rightarrow x > -\frac{1}{7}$$

$$D: x^2-3x+2 > 0 \Rightarrow x < -1, x > 2$$

Intersezioni assi

$$\begin{cases} x=0 \\ y = \frac{7x+1}{x^2-3x+2} \end{cases} \Rightarrow \begin{cases} x=0 \\ y = \frac{1}{2} \end{cases} \left(0, \frac{1}{2}\right) \quad \begin{cases} y=0 \\ y = \frac{7x+1}{x^2-3x+2} \end{cases} \Rightarrow \begin{cases} y=0 \\ x = -\frac{1}{7} \end{cases} \left(-\frac{1}{7}, 0\right)$$

Limiti

$$\lim_{x \rightarrow +\infty} \frac{7x+1}{x^2-3x+2} = 0 \quad \text{asintoto orizzontale a } +\infty : y=0$$

$$\lim_{x \rightarrow 2^\pm} \frac{7x+1}{x^2-3x+2} = \pm\infty \quad \text{asintoto verticale } x=2$$

$$\lim_{x \rightarrow 1^\pm} \frac{7x+1}{x^2-3x+2} = \mp\infty \quad \text{asintoto verticale } x=1$$

$$\lim_{x \rightarrow -\infty} \frac{7x+1}{x^2-3x+2} = 0 \quad \text{asintoto orizzontale a } -\infty : y=0$$

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