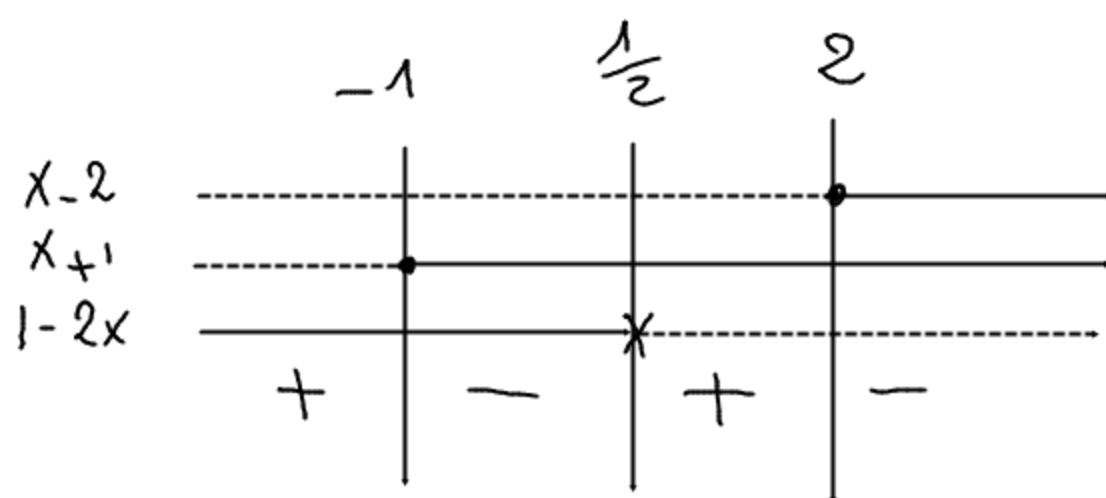


$$y = \frac{x^2 - x - 2}{1 - 2x}$$

$$D = \{ \forall x \in \mathbb{R} : x \neq \frac{1}{2} \}$$

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



int. con assi

$$(-1; 0) \quad (2; 0) \quad (0; -2)$$

AS. VERTICALE: $x = \frac{1}{2}$

AS. OBLIQUO

$$m = \lim_{x \rightarrow +\infty} \frac{x^2 - x - 2}{x - 2x^2} \Rightarrow m = -\frac{1}{2}$$

$$q = \lim_{x \rightarrow \infty} \left(\frac{x^2 - x - 2}{1 - 2x} + \frac{1}{2}x \right) =$$

$$q = \lim_{x \rightarrow \infty} \left(\frac{2x^2 - 2x - 4 + x - 2x^2}{2(1 - 2x)} \right) =$$

$$q = \lim_{x \rightarrow \infty} \left(\frac{-x - 4}{2(1 - 2x)} \right) =$$

$$q = \lim_{x \rightarrow \infty} \frac{-x - 4}{2 - 4x} = \frac{1}{4}$$

ASINTOTO OBLIQUO

$$y = -\frac{1}{2}x + \frac{1}{4}$$

$$y = \frac{x^2 - x - 2}{1 - 2x}$$

$$y' = \frac{(2x-1)(1-2x) - (-2)(x^2-x-2)}{(1-2x)^2}$$

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

$$y' = \frac{-2x^2 + 2x - 5}{(1-2x)^2}$$

