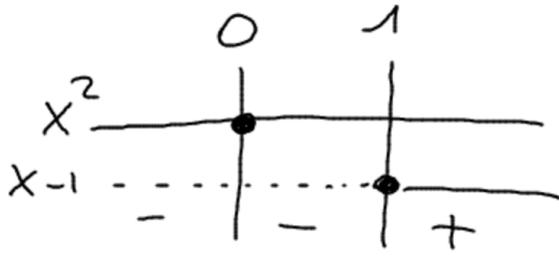


$$y = x^3 - x^2$$

$$D = \mathbb{R}$$

$$D =]-\infty; +\infty[$$

$$y = x^2(x-1)$$

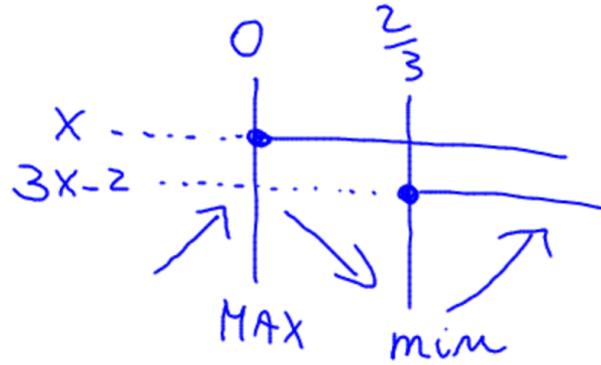


int. con assi:

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

$$y' = 3x^2 - 2x$$

$$y' = x(3x-2)$$



$$y_{\min} = \left(\frac{2}{3}\right)^3 - \left(\frac{2}{3}\right)^2 = \frac{8}{27} - \frac{4}{9} = -\frac{4}{27}$$

$$\text{MAX}(0; 0)$$

$$\text{min}\left(\frac{2}{3}; -\frac{4}{27}\right)$$

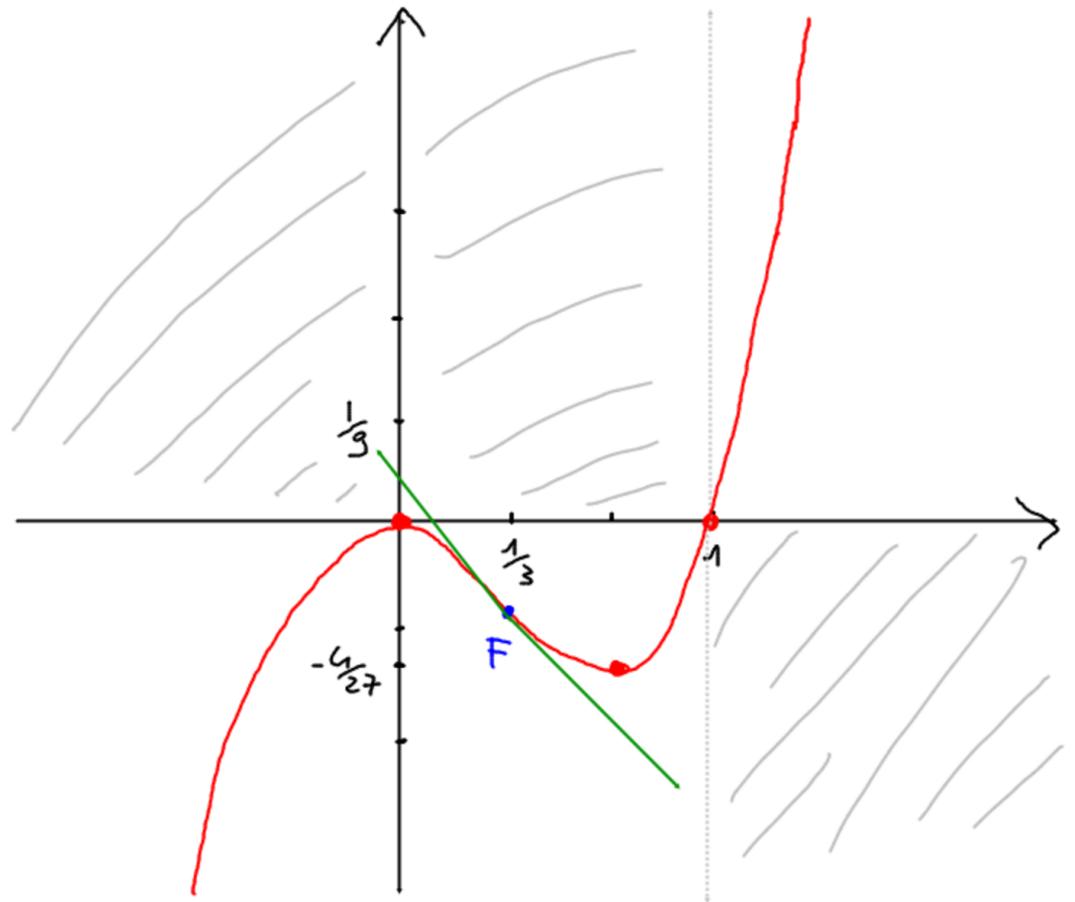
Utilizzo un sistema

NON MONOMETRICO

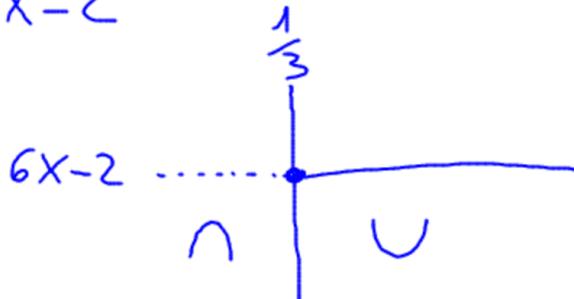
Consiglio per disegnare
sul quadrante:

1 quadrante sull'asse x vale $\frac{1}{9}$

1 quadrante sull'asse y vale $\frac{1}{27}$



$$y'' = 6x - 2$$



$$y_F = \left(\frac{1}{3}\right)^3 - \left(\frac{1}{3}\right)^2 = \frac{1}{27} - \frac{1}{9} = -\frac{2}{27}$$

$$F\left(\frac{1}{3}; -\frac{2}{27}\right)$$

FLESSO

(è il punto in cui cambia
la concavità della curva)