

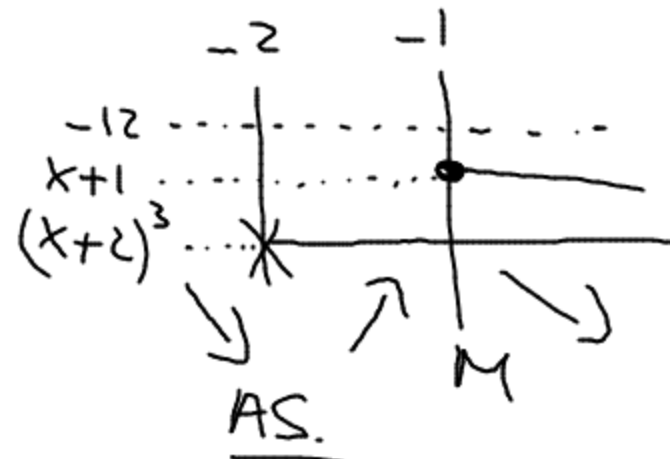
$$y = \frac{6-3x^2}{(x+2)^2}$$

$$y' = \frac{-6x(x+2)^2 - 2(x+2) \cdot (6-3x^2)}{(x+2)^4}$$

$$y' = \frac{\cancel{(x+2)}[-6x(x+2) - 2(6-3x^2)]}{(x+2)^{\cancel{4} 3}}$$

$$y' = \frac{-12x-12}{(x+2)^3} = \frac{-12(x+1)}{(x+2)^3}$$

$$y' = \frac{-6x^2 - 12x - 12 + 6x^2}{(x+2)^3}$$



$$y_{\text{MAX}} = f(-1) = 3 \quad \text{MAX}(-1; 3)$$

$$z = \frac{4x}{(3x-2y)^3}$$

$$z'_x = \frac{4 \cdot (3x-2y)^3 - [3 \cdot (3x-2y)^2 \cdot 3 \cdot 4x]}{(3x-2y)^6}$$

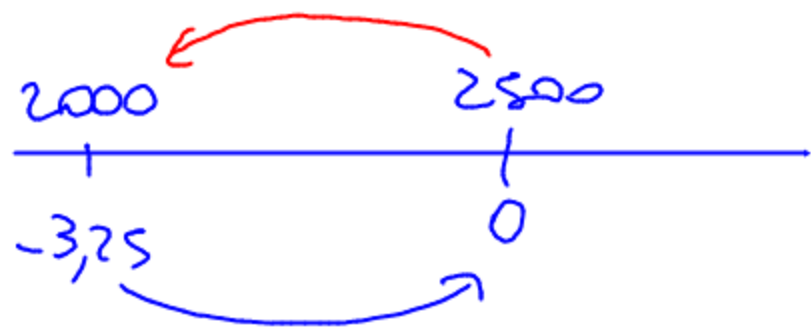
$$z'_x = \frac{(3x-2y)^2 \cdot [4 \cdot (3x-2y) - 9 \cdot 4x]}{(3x-2y)^4}$$

$$z'_x = \frac{12x - 8y - 36x}{(3x-2y)^4} \Rightarrow \frac{-8(3x+y)}{(3x-2y)^4}$$

$$z'_y = \frac{-3(3x-2y)^2 \cdot (-2) \cdot 4x}{(3x-2y)^4}$$

$$z'_y = \frac{24x}{(3x-2y)^4}$$

Ho investito 2000 euro 3 anni e 3 mesi fa  
Oggi quel capitale vale 2500 euro. Qual è il tasso applicato?



$$2000(1+i)^{3,25} = 2500$$

$$2000 = 2500(1+i)^{-3,25}$$

$$\left[ (1+i)^{3,25} \right]^{\frac{1}{3,25}} = 1,25^{\frac{1}{3,25}}$$

$$1+i = 1,071071505$$

$$i = 0,071071505 \Rightarrow i = 7,107\%$$