

EXEMPLO I

Estudar o crescimento e decrescimento da função $f(x) = x^2 + 2x - 3$.



$$f'(x) = 2x + 2$$

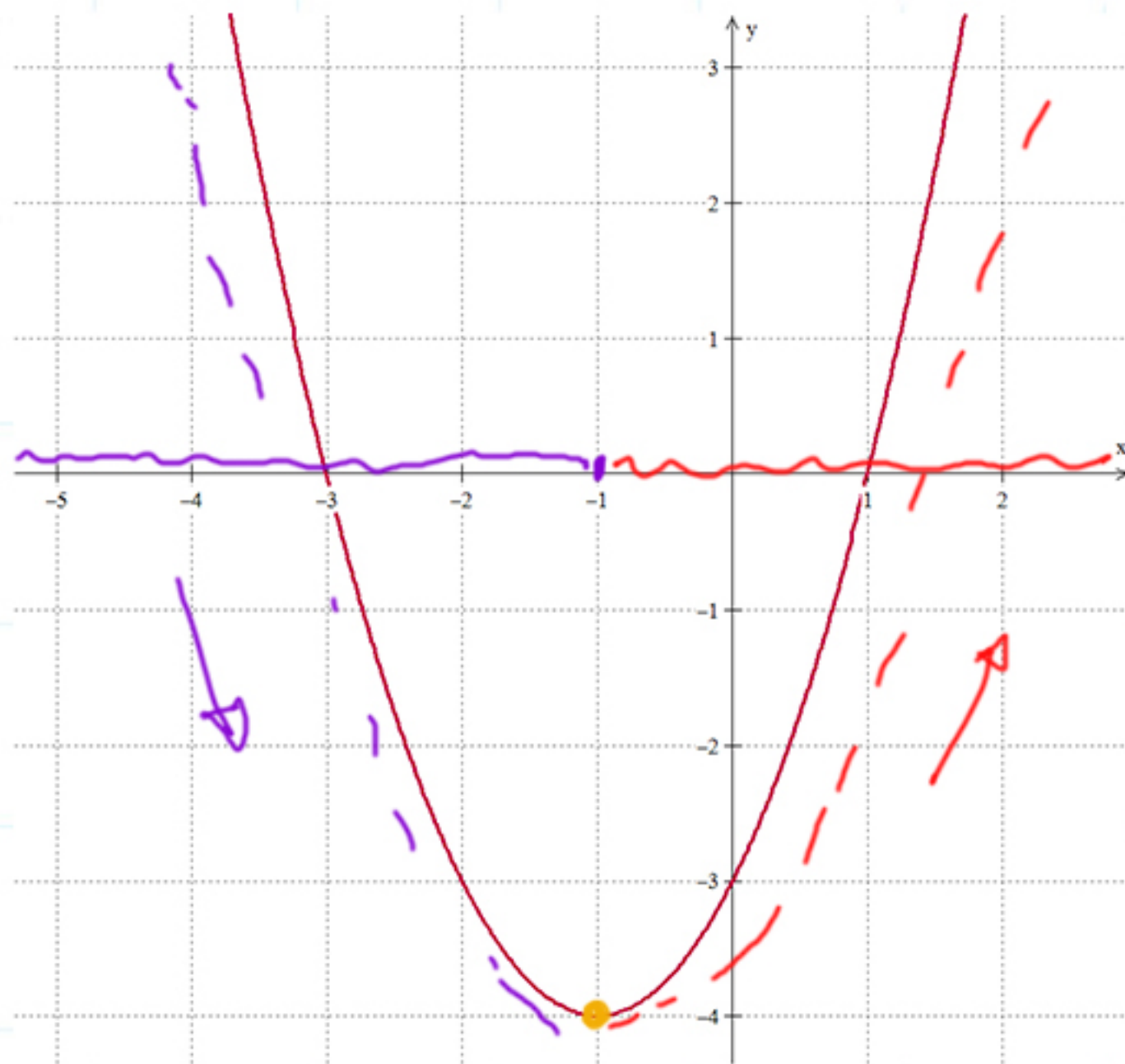
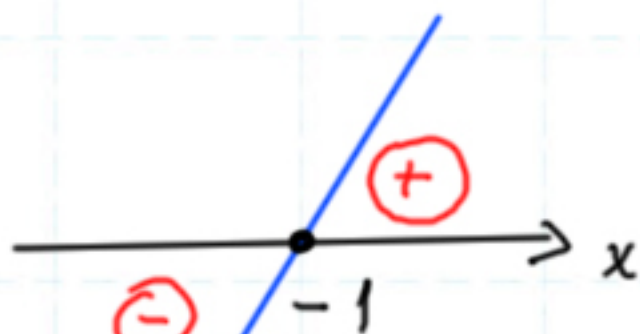
$$2x + 2 = 0$$

$$2x = -2$$

$$x = -1$$

estado
sinal
de f'

curv.
decrec.
de f



$] -\infty; -1[\rightarrow$ decresc.

$] -1; +\infty[\rightarrow$ cresc.