Maximos / Minimos / Función Creciente
Funcion Decreciente / Grafica

1 $Y = -3x^2 - 5x + 6$

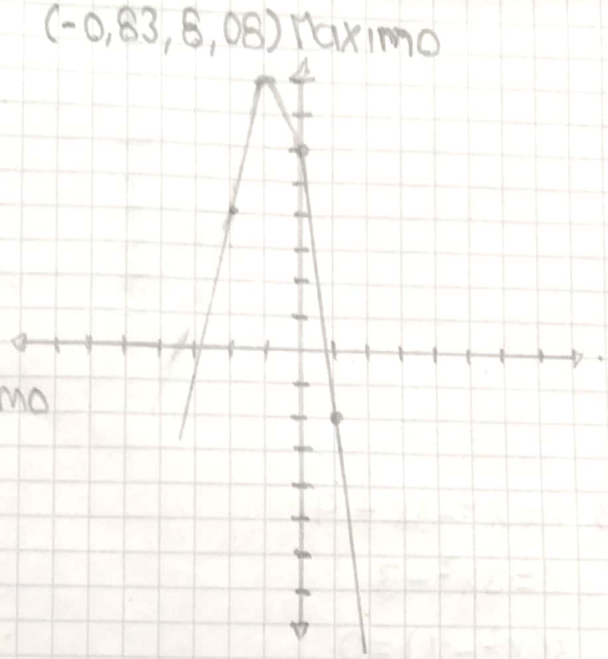
$Y' = -6x - 5$

$-6x - 5 = 0$

$-6x = -5$

$x = \frac{-5}{6}$

$x = -0,83$ Maximo



$Y = -3(-0,83)^2 - 5(-0,83) + 6$

$Y = 8,08$

$Y' = -6x - 5$

$Y' = -6$ Maximo

2 $f(x) = 2x^3 - 2x^2 - 16x + 7$

$f(x)' = 6x^2 - 4x - 16$

$f(x)' = 0 \rightarrow 2(3x + 4)(x - 2)$

$x = \frac{-4}{3} = -1,33$

$x = 2$

$x = 0$

$f(-4/3)' = 2(-1,33)^3 - 2(-1,33)^2 - 16(-1,33) + 7$

$f(-4/3)' = 14,036$

$f(2) = 2(2)^3 - 2(2)^2 - 16(2) + 7$

$f(2) = -23$

3 $Y = X^3 - 3X + 4$

$Y' = 3X^2 - 3$

$3(X^2 - 1) = 0$

$(X-1) \quad (X+1)$

$X - 1 = 0 \quad X + 1 = 0$

$X_1 = 1 \quad X_2 = -1$

$Y_1 = 2 \quad Y_2 = 6$

$Y_1 = (1)^3 - 3(1)$