

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

מזהב פונקציה

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

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

$$x-3=0 \quad | +3$$

$$\boxed{x=3}$$

$$y(0) = \frac{-0^2}{(0-3)} = 0 \quad (0,0) \text{ נקודה נקודה}$$

פ

$$0 = \frac{-x^2}{x-3}$$

$$0 = -x^2 \quad |$$

$$x=0 \quad (0,0) \text{ נקודה נקודה}$$

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

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

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

$$0 = \frac{-x^2 + 6x}{(x-3)^2}$$

$$0 = -x^2 + 6x \quad | +x^2$$

$$x^2 - 6x \quad | :x$$

$$\boxed{x_1 = 0}$$

$$\boxed{x_2 = 6}$$

$$y(0) = 0$$

$$y(6) = \frac{-26}{3} = -12$$

$$\boxed{\text{Min}(0,0)} \quad \text{נקודה נקודה}$$

$$\boxed{\text{Max}(6,-12)}$$

$$y(-1) = \frac{-1}{4} = -\frac{1}{4}$$

$$y(1) = \frac{1}{2} = \frac{1}{2}$$

$$y(5) = \frac{-25}{2} = -12\frac{1}{2}$$

$$F(x) = -x^2$$

פ

$$F'(x) = -2x$$

$$G(x) = x-3$$

$$G'(x) = 1$$

-1	0	1
1	0	1

Def
f(x)

1	6	6
-12	-12	-12

$$y(7) = -\frac{49}{2} = -12\frac{1}{2}$$

$$3 > x > 0 \cup 6 > x > 3$$

ה"ש

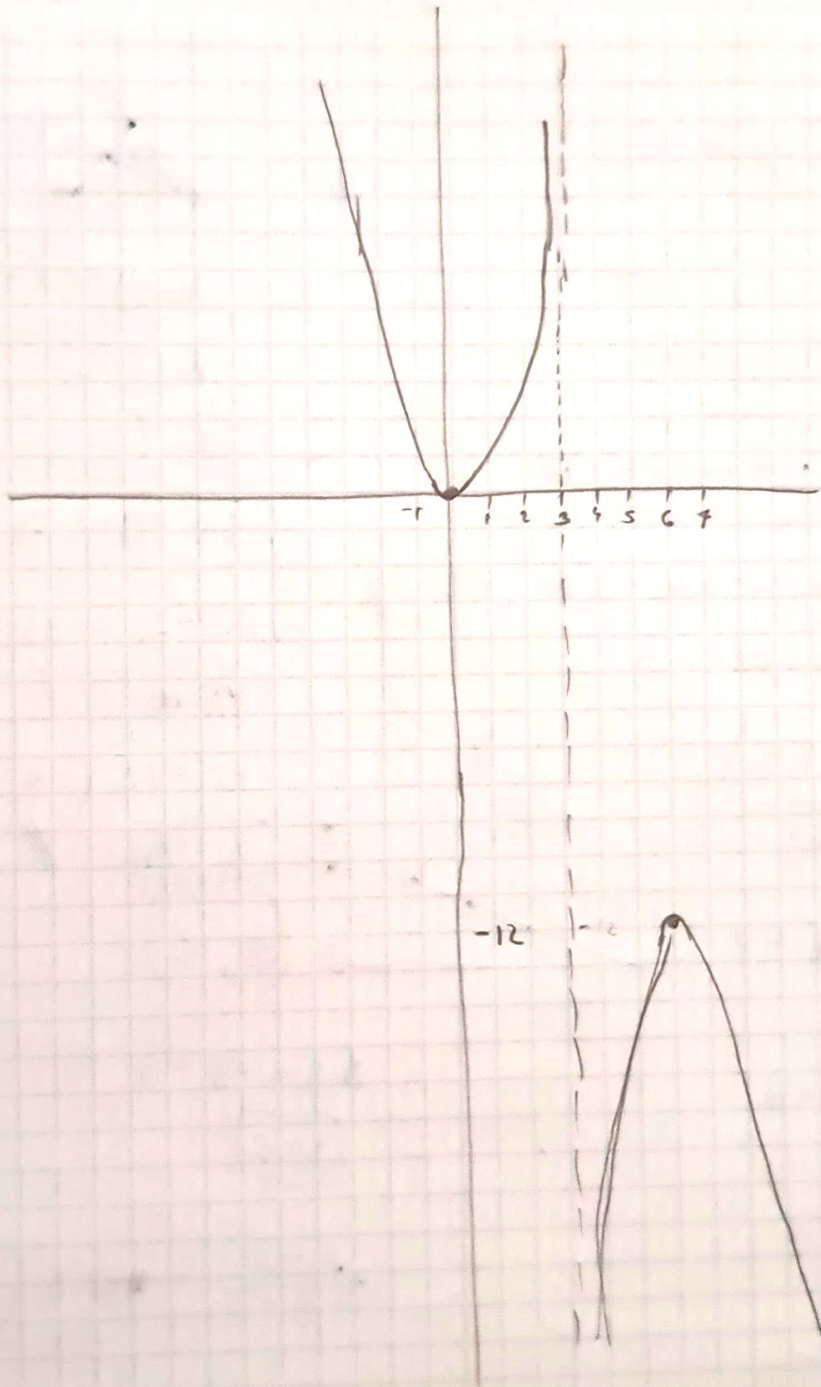
3.

$$x < 0 \cup x > 6$$

ה"ש'

$$x = 3$$

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