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$$y = -x^2 - 4x + 3, \quad [-3; 0].$$

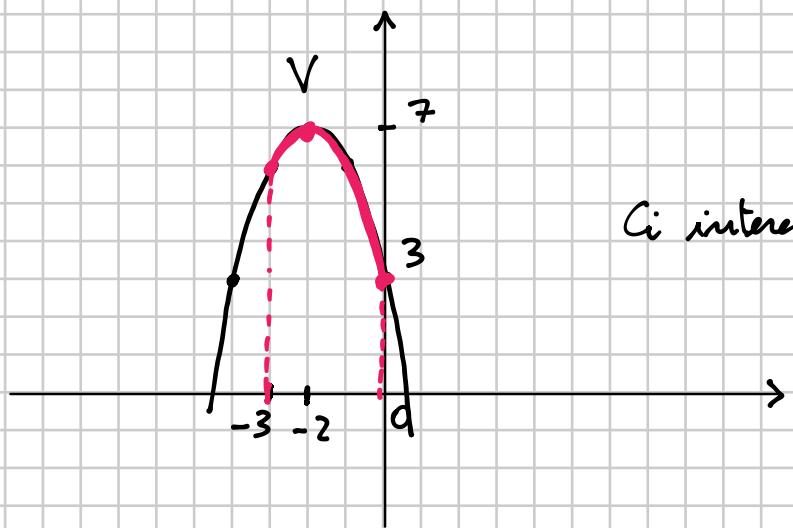
Determinare MAX e MIN ↑ intervallo delle x

$$x_V = -\frac{b}{2a} = -\frac{-4}{-2} = -2 \quad y_V = -(-2)^2 - 4(-2) + 3 = -4 + 8 + 3 = 7$$

V(-2, 7)

x	y
0	3
-2	7

$$-x^2 - 4x + 3 = 0 \quad x^2 + 4x - 3 = 0 \quad \text{non conviene}$$



x	y
-1	6
-3	6

Ci interessa la parola
tra le -3 e 0
(rosso)

VALORI

PUNTO DI MINIMO $\rightarrow x = 0$

$y = 3$ VALORE MIN.

PUNTO DI MASSIMO $\rightarrow x = -2$

$y = 7$ VALORE MAX

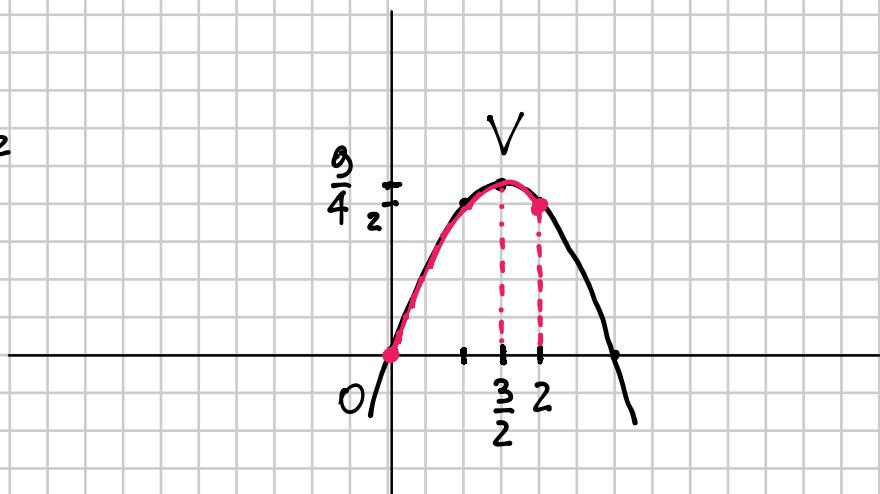
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$$y = -x^2 + 3x, \quad [0; 2]. \quad \text{Determinare max e min.}$$

$$x_V = \frac{3}{2} \quad y_V = -\left(\frac{3}{2}\right)^2 + 3 \cdot \frac{3}{2} = -\frac{9}{4} + \frac{9}{2} = \frac{9}{4} \quad V\left(\frac{3}{2}, \frac{9}{4}\right)$$

x	9
0	0
2	2
1	2

$$y = -4 + 6 = 2$$



$$x_{\max} = \frac{3}{2} \quad y_{\max} = \frac{9}{4}$$

$$x_{\min} = 0 \quad y_{\min} = 0$$