

Equação do 2º grau

função

$$\text{B} \rightarrow \boxed{\text{B}} \rightarrow \text{SS}$$

$$n^{\circ} \rightarrow f(x) \rightarrow n^{\circ}$$

forma padrão: $ax^2 + bx + c$

Ex: $f(x) = 3x^2 + 4x + 2$

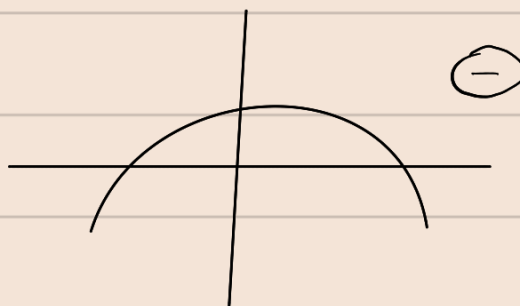
$$a = 3; b = 4; c = 2$$

Gráficos:

$$f(x) = \textcircled{+} x^2 + bx + c$$

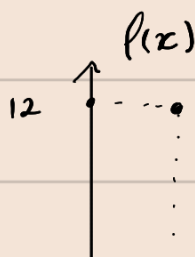


$a \textcircled{+}$



$\textcircled{-}$

$$f(x) = 1x^2 + 2x + 4$$



$$f(2) = 2^2 + 2 \cdot 2 + 4$$

$$4 + 4 + 4 = 12$$



$$* f(x) = ax^2 + bx + c$$

$$* f_2(x) = 2x^2 + 3x + 4$$

$$f_3(x) = -3x^2 + 2x + 4$$

$$a = -3 \quad b = 2 \quad c = 4$$

$$f_4(x) = 0x^2 + 2x - 8$$

$$a = 1 \quad b = 2 \quad c = -8$$

$$f(x) = x^2$$

$$f(0) = 0^2 = 0$$

$$f(1) = 1^2 = 1$$

$$f(2) = 2^2 = 4$$

$f(x)$	x
0	0
1	1
4	2

$$f(x) = 2x^2$$

$$f(1) = 2 \cdot 1^2 = 2$$

$$f(2) = 2 \cdot 2^2 = 8$$

$f(x)$	x
0	0
2	1
8	2

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

$$\boxed{f(x) = x^2 - 2x + 2}$$

$$f(0) = 0^2 - 2 \cdot 0 + 2$$

$$f(0) = 2$$

Ex:

$$f(x) = x^2 + 2x - 1$$

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