

EXERCICE 5B.1

On donne ci-contre la courbe (parabole) qui représente la fonction $A : x \mapsto x^2$.

Retrouver parmi les expressions suivantes la fonction polynôme (sous forme factorisée quand c'est possible) qui correspond à chaque courbe.

$$A(x) = x^2$$

$$B(x) = -(x + 4)(x + 2)$$

$$C(x) = 2(x - 1)(x - 3)$$

$$D(x) = x^2 + 2$$

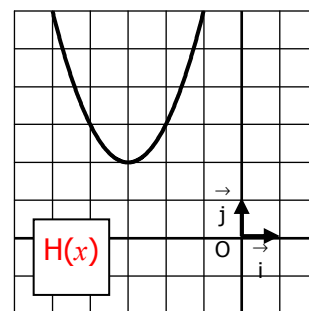
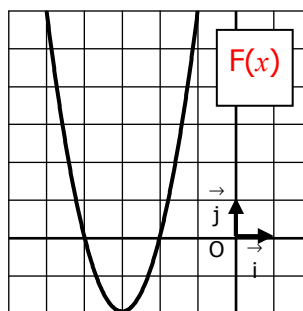
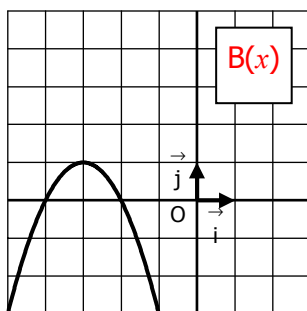
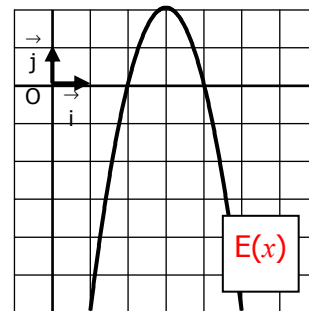
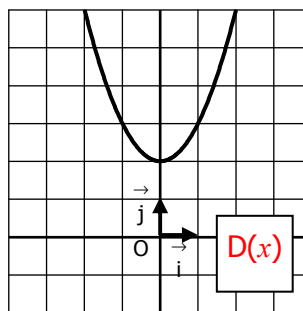
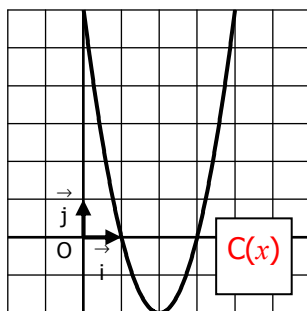
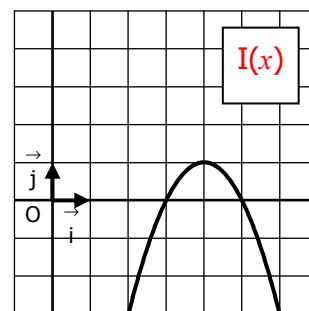
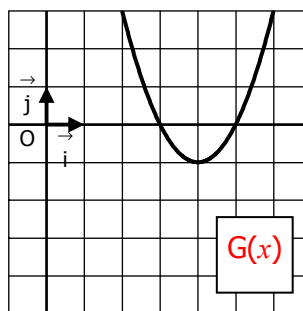
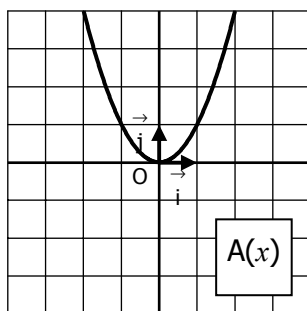
$$E(x) = -2(x - 2)(x - 4)$$

$$F(x) = 2(x + 4)(x + 2)$$

$$G(x) = (x - 3)(x - 5)$$

$$H(x) = (x + 3)^2 + 2$$

$$I(x) = -(x - 3)(x - 5)$$

**EXERCICE 5B.2**

Retrouver parmi les expressions suivantes la fonction polynôme (sous forme canonique) qui correspond à chaque courbe.

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

$$B(x) = (x - 4)^2 - 1$$

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

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

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

$$F(x) = -(x + 3)^2 + 1$$

$$G(x) = (x + 3)^2 + 2$$

$$H(x) = -(x - 4)^2 + 1$$

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

