CORRIGE – NOTRE DAME DE LA MERCI – *Montpellier*

EXERCICE 5A.1

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

→il faut identifier les racines de chaque polynôme

A(x) = x^2

B(x) = -(x + 4)(x + 2) → **–4** et **–2**

C(x) = 2(x – 1)(x – 3) → **1** et **3**

D(x) = x^2 + 2 → **aucune racine**

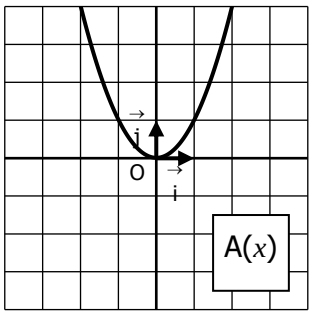
E(x) = -2(x – 2)(x – 4) → **2** et **4**

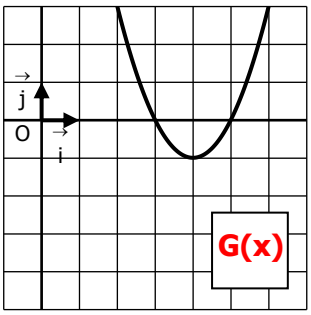
F(x) = 2(x + 4)(x + 2) → **–2** et **–4**

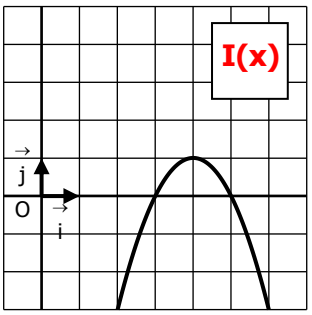
G(x) = (x – 3)(x – 5) → **3** et **5**

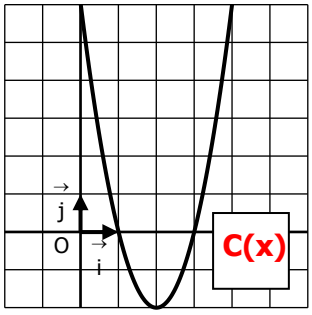
H(x) = (x + 3)² + 2

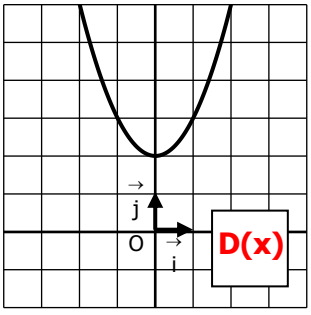
I(x) = -(x – 3)(x – 5) → **3** et **5**

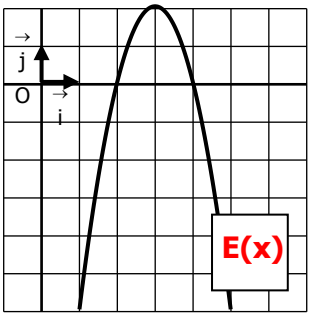


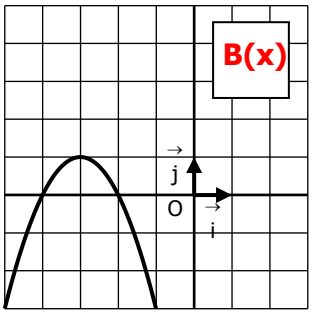


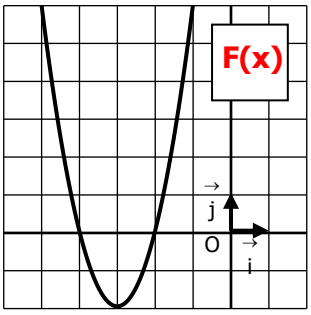


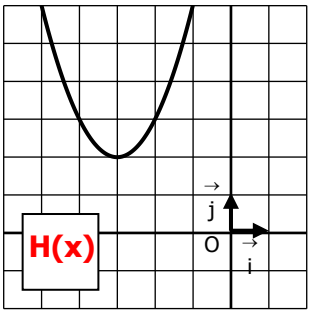












EXERCICE 5A.2

A(x) = **2**(x **– 2**)^2 **– 2**
→**orientée "vers le haut"**
→**décalage horizontal de 2**
→**décalage vertical de –2**

B(x) = (x **– 4**)^2 **– 1**
→**orientée "vers le haut"**
→**décalage horizontal de 4**
→**décalage vertical de –1**

C(x) = **2**(x **+ 3**)^2 **– 2**
→**orientée "vers le haut"**
→**décalage horizontal de –3**
→**décalage vertical de –2**

D(x) = (x **– 1**)² **+ 2**
→**orientée "vers le haut"**
→**décalage horizontal de 1**
→**décalage vertical de 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**