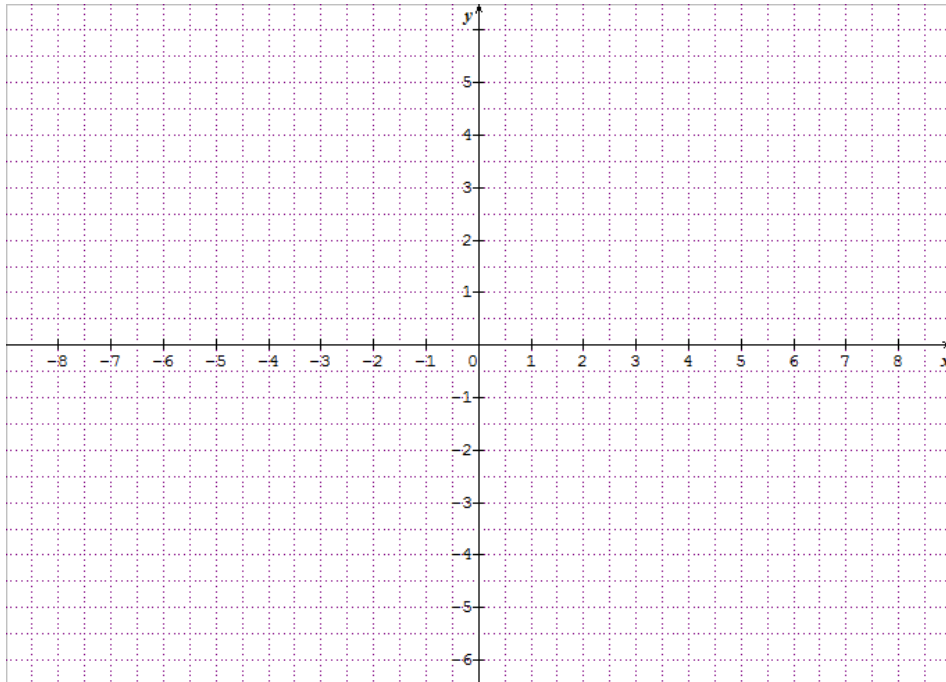


## Analyse Série 6 : Fonctions définies par morceaux

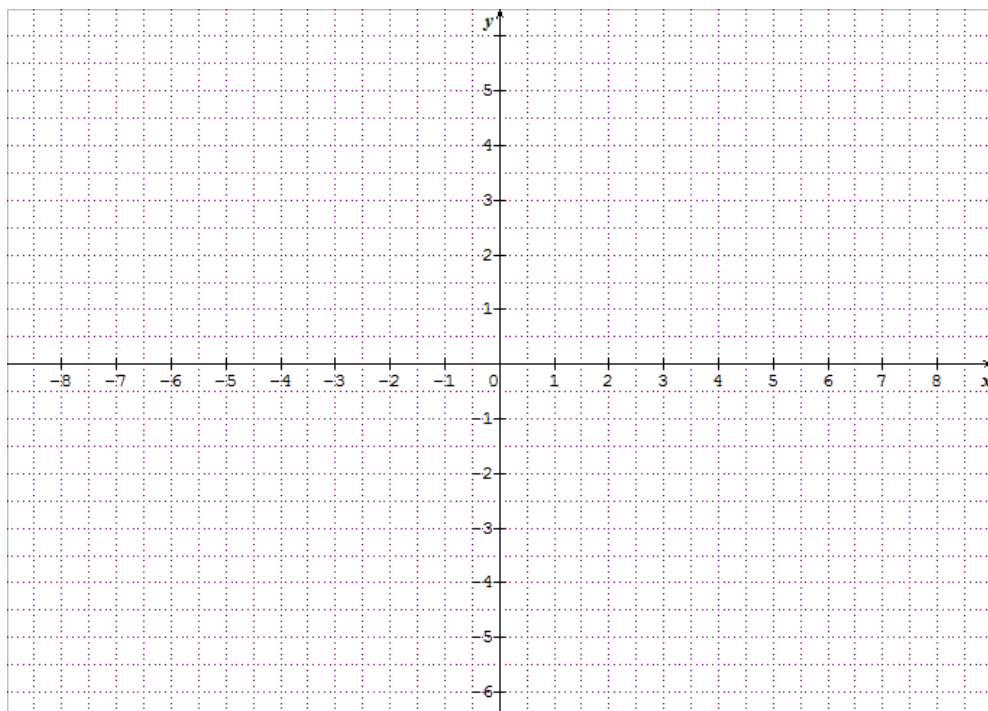
---

Représenter les fonctions suivantes :

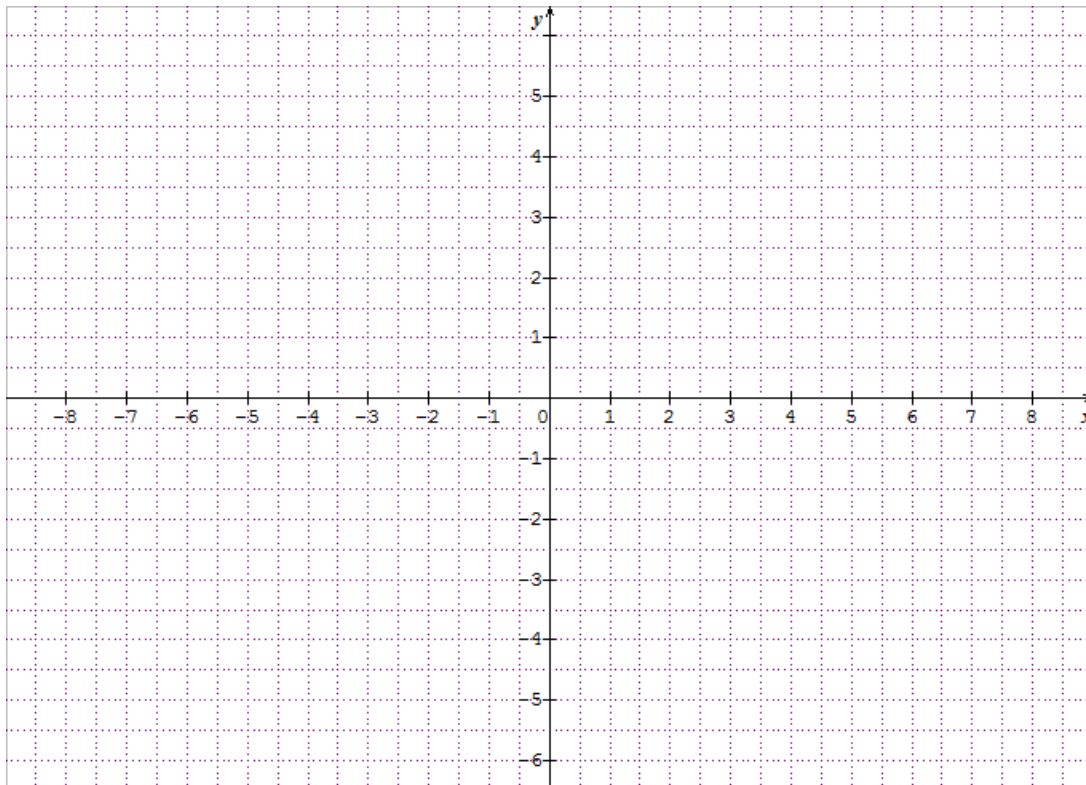
$$\text{a) } f(x) = \begin{cases} -x + 2, & \text{si } x < -1 \\ x + 4, & \text{si } x \geq -1 \end{cases}$$



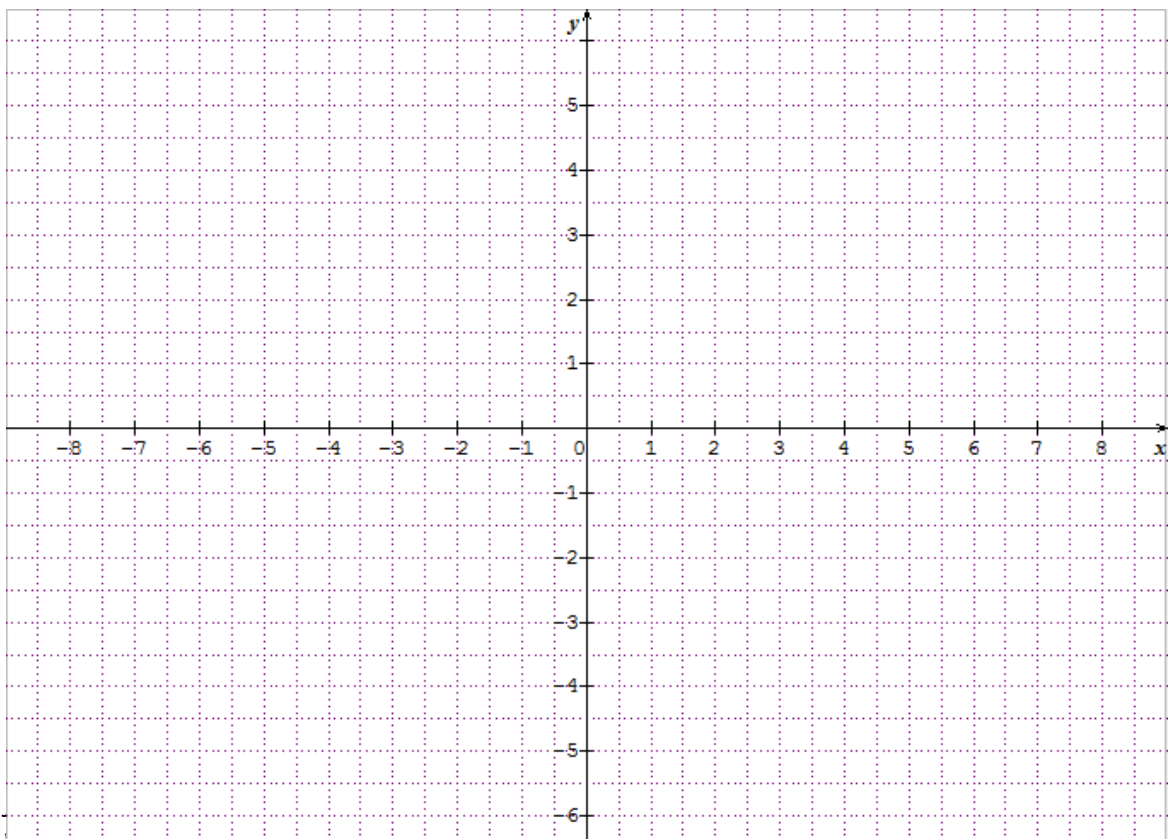
$$\text{b) } f(x) = \begin{cases} -x, & \text{si } x < 0 \\ x^2 - 4x, & \text{si } 0 \leq x < 4 \\ 2x - 8, & \text{si } x \geq 4 \end{cases}$$



$$c) f(x) = \begin{cases} -x(x+2), & \text{si } x < 0 \\ x^2, & \text{si } x \geq 0 \end{cases}$$

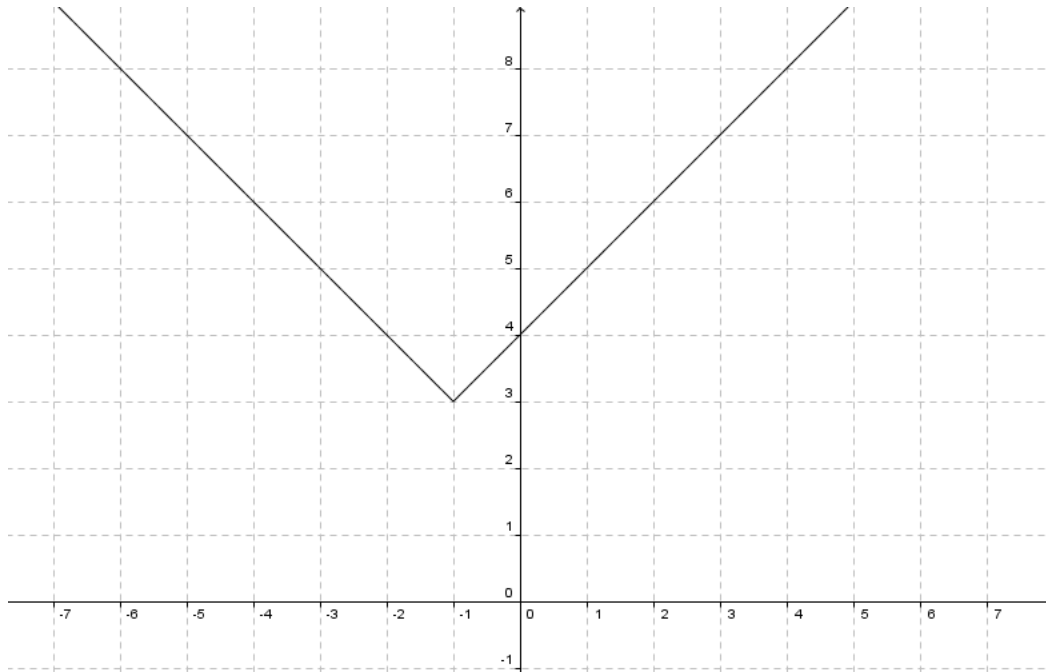


$$d) f(x) = \begin{cases} (x+2)(x+3), & \text{si } x < -1 \\ 2, & \text{si } -1 \leq x < 3 \\ x-1, & \text{si } x \geq 3 \end{cases}$$

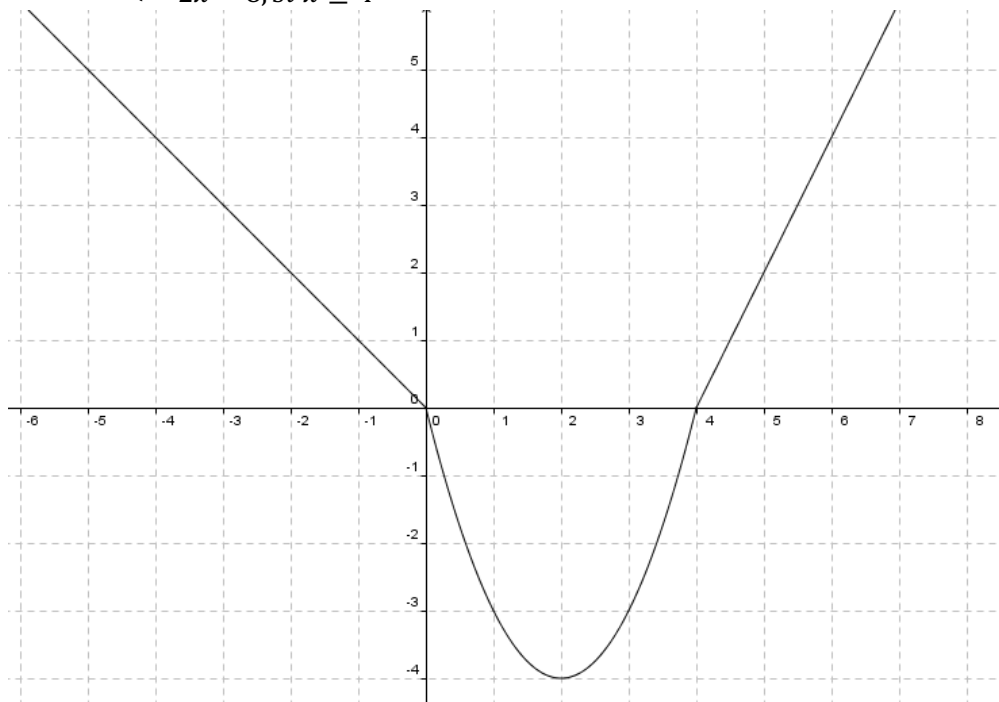


## Solutions Analyse Série 6

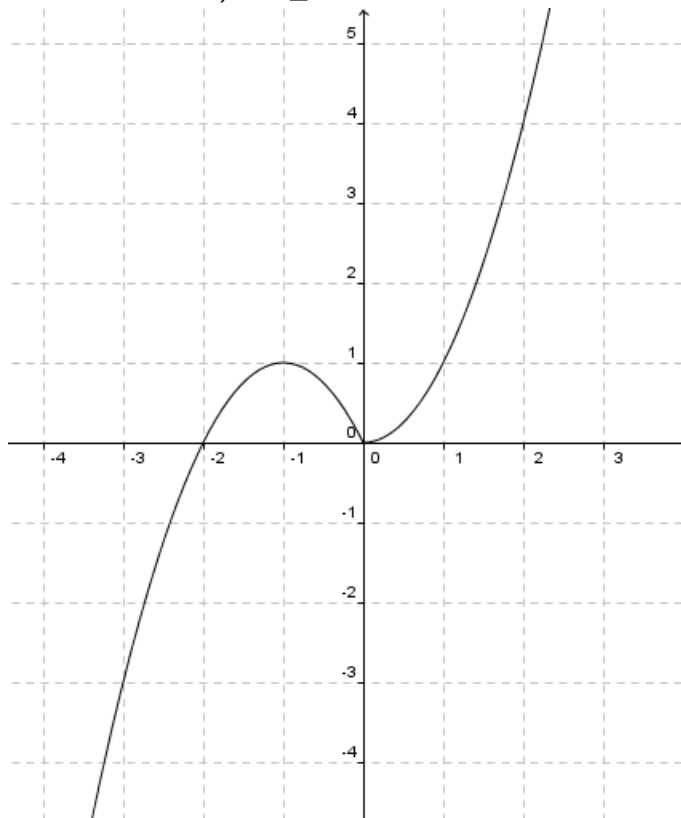
$$a) f(x) = \begin{cases} -x + 2, & \text{si } x < -1 \\ x + 4, & \text{si } x \geq -1 \end{cases}$$



$$b) f(x) = \begin{cases} -x, & \text{si } x < 0 \\ x^2 - 4x, & \text{si } 0 \leq x < 4 \\ 2x - 8, & \text{si } x \geq 4 \end{cases}$$



$$c) f(x) = \begin{cases} -x(x+2), & \text{si } x < 0 \\ x^2, & \text{si } x \geq 0 \end{cases}$$



$$d) f(x) = \begin{cases} (x+2)(x+3), & \text{si } x < -1 \\ 2, & \text{si } -1 \leq x < 3 \\ x-1, & \text{si } x \geq 3 \end{cases}$$

