

### Exercice 23

$$\text{Aire du rectangle (1)} = 6x \times 2x = 12x^2$$

$$\text{Aire du rectangle (2)} = (120 - 6x) \times 2x = -12x^2 + 240x$$

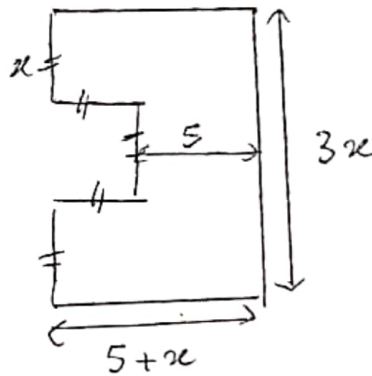
$$\begin{aligned}\text{Aire du rectangle (3)} &= (120 - 6x)(40 - 2x) \\ &= 4800 - 240x - 240x + 12x^2 \\ &= 12x^2 - 480x + 4800\end{aligned}$$

$$\text{Aire du rectangle (4)} = 6x \times (40 - 2x) = -12x^2 + 240x$$

### Exercice 21

$$\begin{aligned}1) \quad P &= 5x + 2 \times (5+x) + 3x \\ &= 10x + 10\end{aligned}$$

$$\begin{aligned}2) \quad A &= 3x \times (5+x) - x^2 \\ &= 3x^2 + 15x - x^2 \\ &= 2x^2 + 15x\end{aligned}$$



### Exercice 24:

$$\begin{aligned}1) \quad \text{Aire (EFGH)} &= (10+2x) \times (7+2x) \\ &= 4x^2 + 36x + 70\end{aligned}$$

$$\begin{aligned}2) \quad \text{Si } x=0,75, \text{ alors ari (EFGH)} &= 4 \times 0,75^2 + 36 \times 0,75 + 70 \\ &= 97,75 \text{ m}^2.\end{aligned}$$