

Fiche Développement

①

Niveau 3

F1 - ex 1

$$\begin{aligned} A &= 2(x-2) + 3(x+2) \\ &= 2 \times x + 2 \times (-2) + 3 \times x + 3 \times 2 \\ &= 2x - 4 + 3x + 6 \\ &= 2x + 3x - 4 + 6 \\ &= \underline{5x + 2} \end{aligned}$$

$$\begin{aligned} B &= 4(1-x) + (3x+1) \\ &= 4 \times 1 + 4 \times (-x) + 3x + 1 \\ &= 4 - 4x + 3x + 1 \\ &= -4x + 3x + 4 + 1 \\ &= \underline{-x + 5} \end{aligned}$$

$$\begin{aligned} C &= 3(2x-5) - 2(x-1) \\ &= 3 \times 2x + 3 \times (-5) + (-2) \times x + (-2) \times (-1) \\ &= 6x - 15 - 2x + 2 \\ &= 6x - 2x - 15 + 2 \\ &= \underline{4x - 13} \end{aligned}$$

$$\begin{aligned} D &= 3(3x-2) - (2-x) \\ &= 3 \times 3x + 3 \times (-2) - 2 + x \quad (\text{supprimer les parenthèses après un signe -}) \\ &= 9x - 6 - 2 + x \\ &= 9x + x - 6 - 2 \\ &= \underline{10x - 8} \end{aligned}$$

$$\begin{aligned} E &= -4(x-2) + 3(2x+1) \\ &= -4 \times x + (-4) \times (-2) + 3 \times 2x + 3 \times 1 \\ &= -4x + 8 + 6x + 3 \end{aligned}$$

$$E = -4x + 6x + 8 + 3$$

$$= \underline{2x + 11}$$

$$F = 3(2x - 2) - 3(2 - 3x)$$

$$= 3 \times 2x + 3 \times (-2) + (-3) \times 2 + (-3) \times (-3x)$$

$$= 6x - 6 - 6 + 9x$$

$$= 6x + 9x - 6 - 6$$

$$= \underline{15x - 12}$$