

Camp Test de calcul literal.

Développer

$$\begin{aligned}A &= 8(x+3) - 9(x-3)^2 \\ &= 8x + 24 - 9(x^2 - 6x + 9) \\ &= 8x + 24 - 9x^2 + 54x - 81 \\ &= -9x^2 + 62x - 57\end{aligned}$$

Identité remarquable : $(a-b)^2 = a^2 - 2ab + b^2$

$$\begin{aligned}B &= (12-6x)^2 \\ &= 144 - 2 \times 6 \times 12x + 36x^2 \\ &= 144 - 144x + 36x^2\end{aligned}$$

Identité remarquable :

$$\begin{aligned}C &= (5-x)(5+x) \\ &= 25 - x^2\end{aligned}$$

Identité remarquable $(a+b)(a-b) = a^2 - b^2$

Factorisation.

$$\begin{aligned}D &= 9x^2 + 3x \\ &= 3x(3x+1)\end{aligned}$$

$$\begin{aligned}E &= 49 - 4x^2 \quad \text{Identité remarquable} \\ &= (7-2x)(7+2x)\end{aligned}$$

$$\begin{aligned}F &= \underline{(7x+3)}(4x+2) - \underline{(7x+3)}(-2x+4) \\ &= (7x+3)(4x+2 - (-2x+4)) \\ &= (7x+3)(4x+2 + 2x-4) \\ &= (7x+3)(6x-2)\end{aligned}$$