

Entraînement 1 Réduis les expressions suivantes :

$$\begin{aligned}(2x + 3)^2 &= (2x + 3)(2x + 3) \\ &= 4x^2 + 6x + 6x + 9 \\ &= 4x^2 + 2 \times 6x + 9 \\ &= 4x^2 + 12x + 9\end{aligned}$$

$$\begin{aligned}(2x - 3)^2 &= (2x - 3)(2x - 3) \\ &= \\ &= \\ &=\end{aligned}$$

$$\begin{aligned}(5x + 4)^2 &= (5x + 4)(5x + 4) \\ &= \\ &= \\ &=\end{aligned}$$

$$\begin{aligned}(5x - 4)^2 &= (5x - 4)(5x - 4) \\ &= \\ &= \\ &=\end{aligned}$$

$$\begin{aligned}(8x - 1)^2 &= (.....)(.....) \\ &= \\ &= \\ &=\end{aligned}$$

$$\begin{aligned}(10x + 6)^2 &= (.....)(.....) \\ &= \\ &= \\ &=\end{aligned}$$

$$\begin{aligned}(6x - 2)(6x + 2) &= \\ &=\end{aligned}$$

$$\begin{aligned}(7x + 4)(7x - 4) &= \\ &=\end{aligned}$$

Entraînement 2 Développe et réduis les expressions suivantes comme dans les exemples :

$$\begin{aligned}(4x + \underline{5})^2 \\ &= (4x)^2 + 2 \times 4x \times \underline{5} + (\underline{5})^2 \\ &= 16x^2 + 40x + 25\end{aligned}$$

$$\begin{aligned}(5x - \underline{3})^2 \\ &= (5x)^2 - 2 \times 5x \times \underline{3} + (\underline{3})^2 \\ &= 25x^2 - 30x + 9\end{aligned}$$

$$\begin{aligned}(7x + \underline{2})(7x - \underline{2}) \\ &= (7x)^2 - (\underline{2})^2 \\ &= 49x^2 - 4\end{aligned}$$

$$\begin{aligned}(4x + 1)^2 \\ &= \\ &=\end{aligned}$$

$$\begin{aligned}(3x - 2)^2 \\ &= \\ &=\end{aligned}$$

$$\begin{aligned}(9x + 1)(9x - 1) \\ &= \\ &=\end{aligned}$$

$$\begin{aligned}(6x + 3)^2 \\ &= \\ &=\end{aligned}$$

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

$$\begin{aligned}(3x + 3)(3x - 3) \\ &= \\ &=\end{aligned}$$

$$\begin{aligned}(x + 11)^2 \\ &= \\ &=\end{aligned}$$

$$\begin{aligned}(4x - 10)^2 \\ &= \\ &=\end{aligned}$$

$$\begin{aligned}(2x + 6)(2x - 6) \\ &= \\ &=\end{aligned}$$

