

$$2. (4x - 8)^2$$

$$3. (7x - 8)(7x + 8)$$

$$4. (2 + 4x)(2 - 4x)$$

Correction.

$$\begin{aligned} 1) (x+5)^2 &= (x+5) \times (x+5) \\ &= x \times x + x \times 5 + 5 \times x + 5 \times 5 \\ &= x^2 + 5x + 5x + 25 \\ &= x^2 + 10x + 25 \end{aligned}$$

Plus rapide, on identifie $a=x$ et $b=5$ et on utilise

$$\begin{aligned} (x+5)^2 &= x^2 + 2 \times x \times 5 + 5^2 \\ &= x^2 + 10x + 25 \end{aligned}$$

$$\begin{aligned} 2) (4x-8)^2 &= (4x)^2 - 2 \times (4x) \times 8 + 8^2 \\ &= 16x^2 - 64x + 64 \end{aligned}$$

$$\begin{aligned} 3) (7x-8)(7x+8) &= (7x)^2 - 8^2 \\ &= 49x^2 - 64 \end{aligned}$$

$$\begin{aligned} 4) (2+4x)(2-4x) &= 2^2 - (4x)^2 \\ &= 4 - 16x^2 \end{aligned}$$