

IDENTITES REMARQUABLES

Chapitre 5

$$\diamond (\mathbf{a-b})^2 = \mathbf{a^2 - 2ab + b^2}$$

$$\begin{aligned}\text{car } (a-b)^2 &= (a-b)(a-b) \\ &= a^2 - ab - ba + b^2 \\ &= a^2 - 2ab - b^2\end{aligned}$$

$$\diamond (\mathbf{a+b})^2 = \mathbf{a^2 + 2ab + b^2}$$

$$\begin{aligned}\text{car } (a+b)^2 &= (a+b)(a+b) \\ &= a^2 + ab + ba + b^2 \\ &= a^2 + 2ab + b^2\end{aligned}$$

$$\diamond (\mathbf{a-b})(\mathbf{a+b}) = \mathbf{a^2 - b^2}$$

$$\begin{aligned}\text{car } (a-b)(a+b) &= a^2 - ab + ba + b^2 \\ &= a^2 - b^2\end{aligned}$$