

$$(a+b)^2 = a^2 + 2ab + b^2$$

$$(a-b)^2 = a^2 - 2ab + b^2$$

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

a et b 2 nbs

DÉVELOPPER

LES IDENTITÉS
REMARQUABLES

FACTORISER

$$\begin{aligned}(x+7)^2 &= x^2 + 2 \times x \times 7 + 7^2 \\ &= x^2 + 14x + 49\end{aligned}$$
$$\begin{aligned}(5x-4)^2 &= (5x)^2 - 2 \times 5x \times 4 + 4^2 \\ &= 25x^2 - 40x + 16\end{aligned}$$
$$\begin{aligned}(6x+10)(6x-10) &= (6x)^2 - 10^2 \\ &= 36x^2 - 100\end{aligned}$$

$$\begin{aligned}109^2 &= (100+9)^2 \\ &= 100^2 + 2 \times 100 \times 9 + 9^2 \\ &= 10000 + 1800 + 81 \\ &= 10609\end{aligned}$$
$$\begin{aligned}29^2 &= (30-1)^2 = 30^2 - 2 \times 30 \times 1 + 1^2 \\ &= 900 - 60 + 1 \\ &= 841\end{aligned}$$
$$\begin{aligned}19 \times 21 &= (20-1)(20+1) = 20^2 - 1^2 \\ &= 400 - 1 \\ &= 399\end{aligned}$$

$$\begin{aligned}x^2 + 16x + 64 &= x^2 + 2 \times x \times 8 + 8^2 \\ &= (x+8)^2\end{aligned}$$
$$\begin{aligned}81x^2 - 90x + 25 &= (9x)^2 - 2 \times (9x) \times 5 + 5^2 \\ &= (9x-5)^2\end{aligned}$$
$$25x^2 - 121 = (5x)^2 - 11^2 = (5x+11)(5x-11)$$
$$\begin{aligned}(3x-1)^2 - 49 &= (3x-1)^2 - 7^2 \\ &= (3x-1+7)(3x-1-7) \\ &= (3x+6)(3x-8)\end{aligned}$$