

Factoriser

ex 22.1

$$\begin{aligned} A &= 2x + 3x \\ &= 2 \times x + 3 \times x \\ &= x(2 + 3) \\ &= x \times 5 \\ &= 5x \end{aligned}$$

$$\begin{aligned} B &= 50 - 50x^2 \\ &= 50 \times 1 - 50 \times x^2 \\ &= 50(1 - x^2) \\ &# \end{aligned}$$

$$\begin{aligned} C &= 6x + 18 \\ &= 6 \times x + 6 \times 3 \\ &= 6(x + 3) \end{aligned}$$

$$\begin{aligned} D &= 7x^2 - 13x \\ &= x \times 7x - 13 \times x \\ &= x(7x - 13) \end{aligned}$$

ex 22.2

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

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

$$\begin{aligned} C &= 49x^2 - 16 \\ &= (7x)^2 - 4^2 \\ &= (7x - 4)(7x + 4) \end{aligned}$$

$$\begin{aligned} * D &= 20x^2 - 13 \\ &= 4 \times 5 \times x^2 - 13 \\ &= (2x \times \sqrt{5})^2 - (\sqrt{13})^2 \\ &= (2\sqrt{5}x - \sqrt{13})(2\sqrt{5}x + \sqrt{13}) \end{aligned}$$

Identité Remarquable