

**Exercice 1**

Factoriser chacune des expressions littérales suivantes :

$$\begin{array}{l}
 A = 25x^2 - 30x + 9 \\
 B = (-3x + 9) \times (6x + 6) + (-3x + 9) \times (10x + 1) \\
 C = -(x + 10)^2 + 81x^2
 \end{array}
 \quad \left| \quad
 \begin{array}{l}
 D = 25x^2 - 64 \\
 E = 9x + 1 - (3x + 4) \times (9x + 1) \\
 F = (8x - 10)^2 + (5x + 8) \times (8x - 10)
 \end{array}$$

**Exercice 2**

Factoriser chacune des expressions littérales suivantes :

$$\begin{array}{l}
 A = (-2x - 10) \times (3x + 8) + (3x + 8) \times (3x + 5) \\
 B = 36x^2 - (9x + 1)^2 \\
 C = x^2 - 16
 \end{array}
 \quad \left| \quad
 \begin{array}{l}
 D = 81x^2 + 54x + 9 \\
 E = (8x - 7)^2 + (8x - 7) \times (3x + 2) \\
 F = (2x + 6) \times (10x + 4) - (2x + 6)
 \end{array}$$

**Exercice 3**

Factoriser chacune des expressions littérales suivantes :

$$\begin{array}{l}
 A = (-10x - 4) \times (-2x - 2) - (4x + 2) \times (-10x - 4) \\
 B = x^2 - 12x + 36 \\
 C = -81x^2 + (4x + 10)^2
 \end{array}
 \quad \left| \quad
 \begin{array}{l}
 D = -64x^2 + 1 \\
 E = (4x + 7) \times (x + 2) + 4x + 7 \\
 F = (9x + 4)^2 + (-x + 8) \times (9x + 4)
 \end{array}$$

**Exercice 4**

Factoriser chacune des expressions littérales suivantes :

$$\begin{array}{l}
 A = 36x^2 - 25 \\
 B = (8x + 3)^2 - 36 \\
 C = 25x^2 + 70x + 49
 \end{array}
 \quad \left| \quad
 \begin{array}{l}
 D = (4x + 1) \times (x + 8) + (x + 8) \times (-7x + 10) \\
 E = -(6x - 9) + (6x - 9) \times (2x - 5) \\
 F = (-10x + 6)^2 + (-9x - 10) \times (-10x + 6)
 \end{array}$$

**Exercice 5**

Factoriser chacune des expressions littérales suivantes :

$$\begin{array}{l}
 A = -25 + (9x + 7)^2 \\
 B = (7x - 8) \times (-x + 8) + (7x - 8) \times (5x + 5) \\
 C = 81x^2 - 36
 \end{array}
 \quad \left| \quad
 \begin{array}{l}
 D = 81x^2 + 144x + 64 \\
 E = (3x + 3) \times (-2x + 1) - (3x + 3)^2 \\
 F = (2x - 2) \times (7x - 4) + 2x - 2
 \end{array}$$

**Exercice 6**

Factoriser chacune des expressions littérales suivantes :

$$\begin{array}{l}
 A = (-6x - 9) \times (4x + 6) + (-6x - 9) \times (5x - 9) \\
 B = -36 + (4x + 5)^2 \\
 C = 81x^2 - 16
 \end{array}
 \quad \left| \quad
 \begin{array}{l}
 D = 49x^2 + 14x + 1 \\
 E = -(x + 2) \times (7x + 3) + x + 2 \\
 F = (x + 10) \times (7x + 2) + (x + 10)^2
 \end{array}$$