

**Exercice 1**

Factoriser chacune des expressions littérales suivantes :

$$\begin{array}{l} A = -(3x - 8) \times (-x + 9) + (3x + 3) \times (-x + 9) \\ B = 9x^2 + 12x + 4 \\ C = 49x^2 - 1 \end{array} \quad \left| \quad \begin{array}{l} D = -(-6x - 9)^2 + 49x^2 \\ E = (4x + 5)^2 + (7x + 7) \times (4x + 5) \\ F = 9x - 5 + (9x - 5) \times (2x - 2) \end{array} \right.$$

**Exercice 2**

Factoriser chacune des expressions littérales suivantes :

$$\begin{array}{l} A = -(9x + 3)^2 + 25 \\ B = (4x - 9) \times (x - 3) + (4x - 9) \times (7x + 4) \\ C = -81x^2 + 81 \end{array} \quad \left| \quad \begin{array}{l} D = 16x^2 + 24x + 9 \\ E = 10x - 2 + (3x + 8) \times (10x - 2) \\ F = (3x - 6)^2 - (3x - 6) \times (x - 8) \end{array} \right.$$

**Exercice 3**

Factoriser chacune des expressions littérales suivantes :

$$\begin{array}{l} A = -(10x - 1)^2 + 36x^2 \\ B = 64x^2 - 4 \\ C = (7x + 6) \times (8x + 5) - (8x + 5) \times (7x + 3) \end{array} \quad \left| \quad \begin{array}{l} D = 100x^2 - 100x + 25 \\ E = 9x + 10 + (9x + 10) \times (6x + 8) \\ F = (5x + 10)^2 + (-7x - 2) \times (5x + 10) \end{array} \right.$$

**Exercice 4**

Factoriser chacune des expressions littérales suivantes :

$$\begin{array}{l} A = (-x + 7) \times (-10x + 1) + (-x + 7) \times (-10x - 3) \\ B = 100x^2 - 100x + 25 \\ C = -36 + (-5x + 4)^2 \end{array} \quad \left| \quad \begin{array}{l} D = -36x^2 + 81 \\ E = (x + 4) \times (4x - 7) + (x + 4)^2 \\ F = -(3x + 4) + (6x + 7) \times (3x + 4) \end{array} \right.$$

**Exercice 5**

Factoriser chacune des expressions littérales suivantes :

$$\begin{array}{l} A = 36x^2 - 25 \\ B = 4 - (3x + 4)^2 \\ C = (x + 9) \times (8x + 5) + (8x + 5) \times (x - 10) \end{array} \quad \left| \quad \begin{array}{l} D = 16x^2 + 40x + 25 \\ E = (4x + 9) \times (8x + 2) + 8x + 2 \\ F = (2x + 4) \times (-5x + 10) - (-5x + 10)^2 \end{array} \right.$$

**Exercice 6**

Factoriser chacune des expressions littérales suivantes :

$$\begin{array}{l} A = 64 - (7x + 8)^2 \\ B = 36x^2 - 108x + 81 \\ C = 25x^2 - 16 \end{array} \quad \left| \quad \begin{array}{l} D = (2x - 9) \times (10x + 1) + (-2x - 7) \times (10x + 1) \\ E = -(5x + 9) + (5x + 9) \times (9x + 4) \\ F = (-5x + 5)^2 + (-5x + 5) \times (-10x - 6) \end{array} \right.$$