

**Exercice 1 :**

Développer chaque expression.

$$A = 3(x + 5) = 3 \times \dots + 3 \times \dots = \dots$$

$$B = 10(3 + x) = 10 \times \dots + 10 \times \dots = \dots$$

$$C = 4(2x + 3) = \dots \times \dots + \dots \times \dots = \dots$$

$$D = 5(6 - x) = 5 \times \dots - 5 \times \dots = \dots$$

$$E = 7(x - 3) = \dots \times \dots - \dots \times \dots = \dots$$

$$F = 2(5x - 9) =$$

Exercice 2 :

Développer les expressions suivantes.

$$A = -5(x + 2) = (-5) \times \dots + (-5) \times \dots = \dots$$

$$B = -3(x - 2) = (-3) \times \dots - (-3) \times \dots = \dots$$

$$C = 2x(x - 7) =$$

$$D = x(4 - x) =$$

$$E = -3x(x + 4) =$$

$$F = x(x + 3) =$$

Exercice 3 :

Développe et réduis les expressions suivantes.

$$A = (x + 4)(x + 3) = x \times \dots + x \times \dots + 4 \times \dots + 4 \times \dots = \dots + \dots + \dots + \dots = \dots + \dots + \dots$$

$$B = (y + 3)(2y + 8) = y \times \dots + y \times \dots + 3 \times \dots + 3 \times \dots = \dots + \dots + \dots + \dots = \dots + \dots + \dots$$

$$C = (3z - 4)(5 - 6z) = 3z \times \dots + 3z \times \dots + (-4) \times \dots + (-4) \times \dots = \dots + \dots + \dots + \dots = \dots + \dots + \dots$$

$$D = (7t + 8)(3 + 5t) =$$

Exercice 4 :

Factoriser les expressions suivantes.

$$A = 9y - 63 = 9 \times y + 9 \times 7 = 9 \times (\dots + \dots)$$

$$B = 12y - 42 = 6 \times 2y - 6 \times 7 = \dots \times (\dots - \dots)$$

$$C = 5y + 5 = \dots \times \dots + \dots \times \dots = \dots (\dots + \dots)$$

$$D = 7y - 7z =$$

$$E = x^2 + 3x =$$