

Exercice 1 : Factoriser les expressions suivantes

$$A = 4 \times x - 4 \times 2$$

$$B = a \times 2 + a \times a$$

$$C = x \times a + 3 \times a$$

$$D = 5 \times x^2 - 5 \times (-2)$$

Exercice 2 : Réduire les expressions suivantes

$$A = 8x + 6x$$

$$B = 4a - 5a$$

$$C = 2a - 6a$$

$$D = 4x^2 - 6x^2$$

$$E = 8y + 10y$$

$$F = -10z^2 + 3z^2$$

Exercice 3 : Réduis les expressions suivantes

$$G = 2x + 8 - 3x + 6$$

$$H = 4x - 8x^2 + 3 - 2x$$

$$I = 4x - 8 + 6x^2 - 8x^2 + 3$$

$$J = 8x^2 - 5x + 3 + 2x^2 - 5x - 9$$

Exercice 4 : Factoriser les expressions suivantes

$$K = 10x - 8x^2$$

$$L = 7a - 10a^2$$

$$M = 9ab - 8a^2$$

$$N = (x + 1) \times 3x - (x + 1) \times 2$$

Exercice 1 : Factoriser les expressions suivantes

$$A = 4 \times x - 4 \times 2 = 4(x - 2)$$

$$B = a \times 2 + a \times a = a(2 + a)$$

$$C = x \times a + 3 \times a = a(x + 3)$$

$$D = 5 \times x^2 - 5 \times (-2) = 5(x^2 - (-2))$$

$$D = 5(x^2 + 2)$$

Exercice 2 : Réduire les expressions suivantes

$$A = 8x + 6x = x(8 + 6) = 14x$$

$$B = 4a - 5a = a(4 - 5) = -1a = -a$$

$$C = 2a - 6a = a(2 - 6) = -4a$$

$$D = 4x^2 - 6x^2 = x^2(4 - 6) = -2x^2$$

$$E = 8y + 10y = y(8 + 10) = 18y$$

$$F = -10z^2 + 3z^2 = z^2(-10 + 3) = -7z^2$$

Exercice 3 : Réduis les expressions suivantes

$$G = 2x + 8 - 3x + 6 = 2x - 3x + 8 + 6 = -x + 14$$

$$H = 4x - 8x^2 + 3 - 2x = 4x - 2x - 8x^2 + 3 = 2x - 8x^2 + 3$$

$$I = 4x - 8 + 6x^2 - 8x^2 + 3 = 4x - 8 + 3 + 6x^2 - 8x^2 = 4x - 5 - 2x^2$$

$$J = 8x^2 - 5x + 3 + 2x^2 - 5x - 9 = 8x^2 + 2x^2 - 5x - 5x + 3 + 9 = 10x^2 - 10x + 12$$

Exercice 4 : Factoriser les expressions suivantes

$$K = 10x - 8x^2 = x(10 - 8x)$$

$$L = 7a - 10a^2 = a(a - 10a)$$

$$M = 9ab - 8a^2 = a(9b - 8a)$$

$$N = (x + 1) \times 3x - (x + 1) \times 2$$

$$N = (x + 1)(3x - 2)$$