

Développer avec la simple distributivité - CORRECTIONS

Niveau 1

Exercice 1 :

$$A = 4 \times (2x + 5) = 4 \times 2x + 4 \times 5 = 8x + 20$$

$$B = 3 \times (4x + 2) = 3 \times 4x + 3 \times 2 = 12x + 6$$

$$C = 5 \times (3x - 6) = 5 \times 3x - 5 \times 6 = 15x - 30$$

$$D = 2(8x - 9) = 2 \times 8x - 2 \times 9 = 16x - 18$$

$$E = -4 \times (2x + 3) = -4 \times 2x - 4 \times 3 = -8x - 12$$

Exercice 2 :

$$A = 8(3x + 4) = 8 \times 3x + 8 \times 4 = 24x + 32$$

$$B = 5(4x - 10) = 5 \times 4x - 5 \times 10 = 20x - 50$$

$$C = -4(2x + 3) = -4 \times 2x + (-4) \times 3 = -8x + (-12) = -8x - 12$$

$$D = -3(5x - 6) = -3 \times 5x - (-3) \times 6 = -15x - (-18) = -15x + 18$$

$$E = 7(10x - 1) = 7 \times 10x - 7 \times 1 = 70x - 7$$

$$F = -6(-3x - 7) = -6 \times (-3x) - (-6) \times 7 = 18x - (-42) = 18x + 42$$

Exercice 3 :

$$A = 12(4x - 8) = 12 \times 4x - 12 \times 8 = 48x - 96$$

$$B = -3(7x + 9) = -3 \times 7x - 3 \times 9 = -21x - 27$$

$$C = 2x(3x + 4) = 2x \times 3x + 2x \times 4 = 6x^2 + 8x$$

$$D = 3x(5 + 8x) = 3x \times 5 + 3x \times 8x = 15x + 24x^2$$

$$E = 2x(4x - 9) = 2x \times 4x - 2x \times 9 = 8x^2 - 18x$$

$$F = -5x(10 + 4x) = -5x \times 10 - 5x \times 4x = -50x - 20x^2$$

$$G = -4x(-3x - 7) = -4x \times (-3x) - (-4x) \times 7 = 12x^2 - (-28x) = 12x^2 + 28x$$