

Feuille d'exercices n°C4F3 : Distributivité

Exercice 1 : Sur cette feuille Développe et réduis

$$A = 2(3x+5)$$

$$B = 3(7-4x)$$

$$C = -3(x-4)$$

$$D = -4(-2x+1)$$

$$A = \dots\dots\dots$$

$$B = \dots\dots\dots$$

$$C = \dots\dots\dots$$

$$D = \dots\dots\dots$$

$$A = \dots\dots\dots$$

$$B = \dots\dots\dots$$

$$C = \dots\dots\dots$$

$$D = \dots\dots\dots$$

Exercice 2 : Sur cette feuille, Développe puis réduis les expressions suivantes :

$$A = 4 + 2a - 3a + 4(a - 2)$$

$$B = 3(x + 5) + 4(x - 2)$$

$$A = \dots\dots\dots$$

$$B = \dots\dots\dots$$

$$A = \dots\dots\dots$$

$$B = \dots\dots\dots$$

$$A = \dots\dots\dots$$

$$B = \dots\dots\dots$$

$$C = -5(3x + 1) + 7x - 5$$

$$D = 3(6x - 5) - 4(x - 2)$$

$$C = \dots\dots\dots$$

$$D = \dots\dots\dots$$

$$C = \dots\dots\dots$$

$$D = \dots\dots\dots$$

$$C = \dots\dots\dots$$

$$D = \dots\dots\dots$$

Exercice 3: Sur cette feuille, Factorise les expressions :

$$A = 8x + 12y = \dots\dots\dots = \dots\dots\dots$$

$$B = 15xy + 30xz = \dots\dots\dots = \dots\dots\dots$$

$$C = 2x^2 + 8x = \dots\dots\dots = \dots\dots\dots$$

$$D = 25x^2y - 15xy^2 = \dots\dots\dots = \dots\dots\dots$$

C4F3 : CORRECTION

Exercice 1 : Sur cette feuille Développe et réduis

$$A = 2(3x+5)$$

$$B = 3(7-4x)$$

$$C = -3(x-4)$$

$$D = -4(-2x+1)$$

$$A = 2 \times 3x + 2 \times 5$$

$$B = 3 \times 7 + 3 \times (-4x)$$

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

$$D = -4 \times (-2x) + (-4) \times 1$$

$$A = 6x + 10$$

$$B = 21 + (-12x)$$

$$C = -3x + 12$$

$$D = 8x + (-4)$$

Exercice 2 : Sur cette feuille, Développe puis réduis les expressions suivantes :

$$A = 4 + 2a - 3a + 4(a - 2)$$

$$B = 3(x + 5) + 4(x - 2)$$

$$A = 4 + 2a - 3a + 4 \times a + 4 \times (-2)$$

$$B = 3 \times x + 3 \times 5 + 4 \times x + 4 \times (-2)$$

$$A = 4 + 2a - 3a + 4a + (-8)$$

$$B = 3x + 15 + 4x + (-8)$$

$$A = 3a + (-4)$$

$$B = 7x + 7$$

$$C = -5(3x + 1) + 7x - 5$$

$$D = 3(6x - 5) - 4(x - 2)$$

$$C = -5 \times 3x + (-5) \times 1 + 7x - 5$$

$$D = 3 \times 6x + 3 \times (-5) + (-4) \times x + (-4) \times (-2)$$

$$C = -15x + (-5) + 7x - 5$$

$$D = 18x + (-15) + (-4x) + 8$$

$$C = -8x + (-10)$$

$$D = 14x + (-7)$$

Exercice 3: Sur cette feuille, Factorise les expressions :

$$A = 8x + 12y = 4 \times x + 4 \times 3y = 4 \times (x + 3y)$$

$$B = 15xy + 30xz = 5x \times 3y + 5x \times 6z = 5x \times (3y + 6z)$$

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

$$D = 25x^2y - 15xy^2 = 5xy \times 5x + 5xy \times (-3y) = 5xy \times (5x + (-3y))$$