

**Exercice n°1:**

1°) Calcule l'expression $A = 4(x + 2) + 5x$
pour $x = 5$

$$A = 4(x + 2) + 5x$$

$$A = 4 \times (5 + 2) + 5 \times 5$$

$$A = 4 \times 7 + 25$$

$$A = 28 + 25$$

$$A = 53$$

2°) Calcule l'expression $B = 7(x - 2) - x^2$
pour $x = -2$

$$B = 7(x - 2) - x^2$$

$$B = 7 \times (-2 - 2) - (-2)^2$$

$$B = 7 \times (-4) - 4$$

$$B = -28 - 4$$

$$B = -32$$

Exercice n°2 : Réduis, si possible, les expressions suivantes :

$$3x + 5x = 8x$$

$$; 9a - 4a = 5a$$

$$-7x - 3x = -10x$$

$$; 2x^2 - 5x^2 = -3x^2$$

$$7x - (-3x) = 10x$$

$$; 8 + 3x = \text{déjà réduis}$$

$$6 \times 4x = 24x$$

$$; 2x \times 3x = 6x^2$$

$$2x + 3x = 5x$$

$$; -4 \times 2x = -8x$$

$$-5x \times (-2x) = 10x^2$$

$$; 10x - 3x = 7x$$

$$x \times x = x^2$$

$$; 6 \times 3x = 18x$$

$$3a \times 2a \times (-5a) = -30a^3$$

$$; -2x^2 \times (-3x) = 6x^3$$

$$4x + 2y - 9x^2 + 5x - x^2 + 5y = -9x^2 - x^2 + 4x + 5x + 5y + 2y = -10x^2 + 9x + 7y$$

$$4x - 5 + 5x + 3 = 4x + 5x + 3 - 5 = 9x - 2$$

$$-7a + 4a - 7b + 2b = -3a - 5b$$

$$7x^2 + x - 5x^2 + 3 - 4x = 7x^2 - 5x^2 - 4x + x + 3 = 2x^2 - 3x + 3$$



Exercice n°1:

1°) Calcule l'expression $A = 4(x + 2) + 5x$
pour $x = 4$

$$A = 4(x + 2) + 5x$$

$$A = 4 \times (4 + 2) + 5 \times 4$$

$$A = 4 \times 6 + 20$$

$$A = 24 + 20$$

$$A = 44$$

2°) Calcule l'expression $B = 7(x - 2) - x^2$
pour $x = -3$

$$B = 7(x - 2) - x^2$$

$$B = 7 \times (-3 - 2) - (-3)^2$$

$$B = 7 \times (-5) - 9$$

$$B = -35 - 9$$

$$B = -44$$

Exercice n°2 : Réduis, si possible, les expressions suivantes :

$$-7x - 3x = -10x$$

;

$$2x^2 - 5x^2 = -3x^2$$

$$9a - 4a = 5a$$

;

$$3x + 5x = 8x$$

$$2x + 3x = 5x$$

;

$$-4 \times 2x = -8x$$

$$7x - (-3x) = 10x$$

;

$$8 + 3x = \text{déjà réduis}$$

$$6 \times 4x = 24x$$

;

$$2x \times 3x = 6x^2$$

$$6 \times 3x = 18x$$

;

$$x \times x = x^2$$

$$-5x \times (-2x) = 10x^2$$

;

$$10x - 3x = 7x$$

$$-2x^2 \times (-3x) = 6x^3$$

;

$$3a \times 2a \times (-5a) = -30a^3$$

$$7x^2 + x - 5x^2 + 3 - 4x = 7x^2 - 5x^2 - 4x + x + 3 = 2x^2 - 3x + 3$$

$$4x - 5 + 5x + 3 = 4x + 5x + 3 - 5 = 9x - 2$$

$$-7a + 4a - 7b + 2b = -3a - 5b$$

$$4x + 2y - 9x^2 + 5x - x^2 + 5y = -9x^2 - x^2 + 4x + 5x + 5y + 2y = -10x^2 + 9x + 7y$$