

INTRODUCTION AU CALCUL LITTÉRAL

LES EXERCICES RÉSOUS

Exercice 2.1 - Simplifions les écritures ci-dessous :

$$0 \times x = 0$$

$$2 \times x = 2x$$

$$-2 \times x = -2x$$

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

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

$$-1 \times (-x) = x$$

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

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

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

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

$$-6x \times 3x = -18x^2$$

$$-7x \times (-8x) = 56x^2$$

$$x \times 1 = x$$

$$x \times (-1) = -x$$

$$1 \times (-x) = -x$$

$$2x \times 1 = 2x$$

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

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

$$-4x \times (-3) = 12x$$

$$1 \times x = x$$

$$-1 \times x = -x$$

$$1 \times (-x) = -x$$

$$1 \times (2x) = 2x$$

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

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

$$-3 \times (-4x) = 12x$$

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

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

$$4x \times 5x = 20x^2$$

$$5x \times (-4x) = -20x^2$$

$$x \times 0 = 0$$

$$x \times 5 = 5x$$

$$x \times (-3) = -3x$$

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

$$2x \times 2 = 4x$$

$$-x \times (-1) = x$$

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

$$7x \times (-2) = -14x$$

Exercice 2.2 - Développons :

$$2 \times (x + 1) = 2 \times x + 2 \times 1 = 2x + 1$$

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

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

$$5 \times (-x - 4) = 5 \times (-x) + 5 \times (-4) = -5x - 20$$

$$6 \times (2x + 3) = 6 \times 2x + 6 \times 3 = 12x + 18$$

$$7 \times (3x - 4) = 7 \times 3x - 7 \times 4 = 21x - 28$$

$$8 \times (-4x + 5) = 8 \times (-4x) + 8 \times 5 = -32x + 40$$

$$9 \times (-5x - 6) = 9 \times (-5x) - 9 \times 6 = -45x - 54$$

$$-2 \times (x + 1) = -2x - 2(1) = -2x - 1.$$

Exercice 2.3

Développons les expressions :

$$2(x + 3) = 2x + 6$$

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

$$-6(5x + 2) = -30x - 12$$

$$8(-3x + 5) = -24x + 40$$

$$3(x - 5) = 3x - 15$$

$$-5(-x - 3) = 5x + 15$$

$$7(7x - 6) = 49x - 42$$

$$9(-2x - 3) = -18x - 27$$