



Exercice : Réduire les expressions suivantes.

$$9 + 3x + 4x^2 + 6 =$$

$$7 + 5x^2 + 4x + 7 + 4x^2 + 6x =$$

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

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

$$6 + 2x^2 + 2x + 6 + 7x =$$

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

$$6x^2 + 6 + 6x + x^2 + 2 + 8x =$$

$$2x^2 + 2x^2 + 6x + 4 + 9x =$$

$$4 + 7x^2 + 3x + 6x + 3 + 3x^2 =$$

$$7x + 6x^2 + 7 + 6x + 5 + 4x^2 =$$

$$8x^2 + 8 + 8x + x + 8 =$$

$$3x + 8x + x^2 + 8 + 3x^2 + 2 =$$

$$7 + 6x^2 + 1 + 4x + 4x + 7x^2 =$$

$$3 + 6 + 7x^2 + x + 9x^2 + 4x =$$

$$4 + 5x + 7x + 4x^2 + 9x^2 + 6 =$$

$$7 + 9x^2 + 9x + 3x + 9 + 7x^2 =$$

$$5x^2 + 9x + 2x^2 + 8x + 4 =$$

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

$$x^2 + 7x + 5x^2 + 5x + 7 =$$

$$6 + 6x + 8x^2 + 4x + 3x^2 + 7 =$$

$$6 + 2x + 4x^2 - 7 - 3x =$$

$$-4 - 8x + 7x^2 - 2x + 3x^2 + 3 =$$

$$-9 - 4x^2 + 2x - 7 =$$

$$-8x + 7x^2 - 8x^2 - 4 =$$

$$6 + 9x - 3x^2 - 7x^2 + 4x =$$

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

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

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

$$4x^2 + 2x + 2 + 4 + 9x^2 + 4x =$$

$$4 + 7x^2 - 1 + 7x =$$

$$-3x^2 + 4 - 9x + 6x - 5 =$$

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

$$7 - 2x^2 + x - 6x^2 =$$

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

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

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

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

$$-7 + 9x + 5x^2 - 8 =$$

$$2 - 6x + 2x^2 - 6x =$$

$$2x + 5x + 1 + 3 - 2x^2 - 8x^2 =$$



Correction

Exercice : Réduire les expressions suivantes.

$$9 + 3x + 4x^2 + 6 = 15 + 3x + 4x^2$$

$$7 + 5x^2 + 4x + 7 + 4x^2 + 6x = 14 + 10x + 9x^2$$

$$3x + 7x^2 + 5 + 5 = 10 + 3x + 7x^2$$

$$4 + 2x^2 + 6x + 2x + 8x^2 + 3 = 7 + 8x + 10x^2$$

$$6 + 2x^2 + 2x + 6 + 7x = 12 + 9x + 2x^2$$

$$4x + 2 + x + 3x^2 + 7 = 9 + 5x + 3x^2$$

$$6x^2 + 6 + 6x + x^2 + 2 + 8x = 8 + 14x + 7x^2$$

$$2x^2 + 2x^2 + 6x + 4 + 9x = 4 + 15x + 4x^2$$

$$4 + 7x^2 + 3x + 6x + 3 + 3x^2 = 7 + 9x + 10x^2$$

$$7x + 6x^2 + 7 + 6x + 5 + 4x^2 = 12 + 13x + 10x^2$$

$$8x^2 + 8 + 8x + x + 8 = 16 + 9x + 8x^2$$

$$3x + 8x + x^2 + 8 + 3x^2 + 2 = 10 + 11x + 4x^2$$

$$7 + 6x^2 + 1 + 4x + 4x + 7x^2 = 8 + 8x + 13x^2$$

$$3 + 6 + 7x^2 + x + 9x^2 + 4x = 9 + 5x + 16x^2$$

$$4 + 5x + 7x + 4x^2 + 9x^2 + 6 = 10 + 12x + 13x^2$$

$$7 + 9x^2 + 9x + 3x + 9 + 7x^2 = 16 + 12x + 16x^2$$

$$5x^2 + 9x + 2x^2 + 8x + 4 = 4 + 17x + 7x^2$$

$$5 + 5 + 4x + 5x + 3x^2 + 7x^2 = 10 + 9x + 10x^2$$

$$x^2 + 7x + 5x^2 + 5x + 7 = 7 + 12x + 6x^2$$

$$6 + 6x + 8x^2 + 4x + 3x^2 + 7 = 13 + 10x + 11x^2$$

$$6 + 2x + 4x^2 - 7 - 3x = -1 - x + 4x^2$$

$$-4 - 8x + 7x^2 - 2x + 3x^2 + 3 = -1 - 10x + 10x^2$$

$$-9 - 4x^2 + 2x - 7 = -16 + 2x - 4x^2$$

$$-8x + 7x^2 - 8x^2 - 4 = -4 - 8x - x^2$$

$$6 + 9x - 3x^2 - 7x^2 + 4x = 6 + 13x - 10x^2$$

$$4x + 9 - 3 + 2x^2 + 4x = 6 + 8x + 2x^2$$

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

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

$$4x^2 + 2x + 2 + 4 + 9x^2 + 4x = 6 + 6x + 13x^2$$

$$4 + 7x^2 - 1 + 7x = 3 + 7x + 7x^2$$

$$-3x^2 + 4 - 9x + 6x - 5 = -1 - 3x - 3x^2$$

$$4 - x + 6 + 6x^2 = 10 - x + 6x^2$$

$$7 - 2x^2 + x - 6x^2 = 7 + x - 8x^2$$

$$-8 + 6x + 4x^2 - 4x - 2 - x^2 = -10 + 2x + 3x^2$$

$$7x^2 - 3x^2 + 2x - x + 7 = 7 + x - 10x^2$$

$$5x - 3 + 5x + 2x^2 + 8 = 5 + 10x + 2x^2$$

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

$$-7 + 9x + 5x^2 - 8 = -15 + 9x + 5x^2$$

$$2 - 6x + 2x^2 - 6x = 2 - 12x + 2x^2$$

$$2x + 5x + 1 + 3 - 2x^2 - 8x^2 = 4 + 7x - 10x^2$$