

Développer – Réduire

Exercice 1 : réduire

$$A = 3x - 8 + 4x + 5$$

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

$$C = 5x^2 - 7 - 9x^2 + x - 3x + 9$$

$$D = 4x^2 - (5x + x^2 - 6x) + 7x$$

$$E = 3x - (4 + 2x) + (x^2 + 7)$$

$$F = 3x^2 - (4x - 1) - (x^2 + 5x)$$

$$1 + x6 - x^2 2 = 7; 3 + x + x^2 = 8; x8 + x^2 3 = 9; 2 + x2 - x^2 4 = 10; 6 - x + x^2 = 11; 3 - x7 = 12$$

Exercice 2 : développer et réduire

$$G = 7(x + 4)$$

$$H = 4(3 - 2x)$$

$$I = -3(x + 7)$$

$$J = -5(3x - 2)$$

$$K = x(5 + 4x)$$

$$L = 3x(1 - 2x)$$

$$x5 + x9 = 10; x5 + x4 = 11; 01 + x5 = 12; 11 - x3 = 13; 12 + x8 = 14; 8x + 28 = 15$$

Exercice 3 : développer et réduire

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

$$N = (x + 7)(3x + 2)$$

$$P = (1 - 2x)(3 + x)$$

$$Q = (-7x + 6)(5 - x)$$

$$R = (3x + 4)(-x + 1)$$

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

$$02 - x7 + x9 = 3; 4 + x - x^2 3 = 4; 03 + x1 - x^2 4 = 5; 5 + x5 - x^2 2 = 6; 14 + x3 + x^2 3 = 7; 6 + x5 + x^2 = 8$$

Exercice 4 : développer et réduire

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

$$U = (2x - 5)(2x + 3) + 3(x + 6)$$

$$V = (3 - 4x)(1 + 4x) - 5(x + 6)$$

$$W = 3(2x + 4) - (2x - 4)(x + 6)$$

$$95 + x2 - x^2 2 = 10; 12 - x3 + x^2 6 = 11; 3 + x - x^2 4 = 12; 14 + x4 + x^2 = 13$$

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Exercice 4 : développer et réduire

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

$$U = (2x - 5)(2x + 3) + 3(x + 6)$$

$$V = (3 - 4x)(1 + 4x) - 5(x + 6)$$

$$W = 3(2x + 4) - (2x - 4)(x + 6)$$

$$95 + x2 - x^2 2 = 10; 12 - x3 + x^2 6 = 11; 3 + x - x^2 4 = 12; 14 + x4 + x^2 = 13$$