

Factoriser une somme

Exercice 2 : A = 4 (2x - 3) B = 7x (x - 3) C = (x - 5) (- 2x + 1)
D = (2x + 3) (5x + 1)

Exercice 3 : A = 15 (x + 3) B = 6 (- x + 4) C = 4 (x - 2) D = 9 (3x - 1)
E = 11 (x - 3) F = 9 (- x + 1)

Exercice 4 : A = x (4x + 3) B = x (7x - 1) C = x (2 + 5x²) D = 4x (x + 2)
E = 5x (x - 3) F = 2x² (1 + 2x²) G = x (5x² - x + 2) H = 4x (-x² - x + 8)

Exercice 5 : A = (x + 5) x B = (x - 4) (5x - 2) C = (3x - 1) (- x - 7)
D = (2x + 3) (x - 7)

Exercice 6 : A = (x + 7) x B = (2x - 5) (x - 7) C = (2x + 1) (1 + 2x)
D = (x - 8) (x - 7)

Exercice 7 : A = 151 × (47 + 53) B = 13 × (2,3 + 5,7) C = 32 × (23,5 - 3,5)
D = 17 × (47 - 37) E = 21 × (3,4 + 5,4 - 0,8)

Reduire une expression

Exercice 2 : A = 5x B = 10x² C = 7 + 2x D = 18x

Exercice 3 : A = 9x B = 8 + 2x C = - 9x D = 5x + 3 E = 2x² F = 5x + 4x²
G = - 5x² H = 10x²

Exercice 4 : A = 21x B = 10x² C = 18x² D = 12x E = 8x² F = 12x²
G = - 15x² H = - 12x²

Exercice 5 : A = 7 + 3x B = 21x C = 21x² D = 10x E = - 10x
F = - 5 + 2x G = - 10x² H = - 3x I = 24x² J = - 11x K = 24x
L = - 8 - 3x M = 10 - 3x N = - 30x² O = - 30x P = 7x

Exercice 6 : a) 5x + 4x = 9x ; b) 6 × (-2x²) = - 12x² ;
c) 11x - 4x = 7x ; d) - 3x (6x) = - 18x² ;
e) 7(-4x²) = - 28x² ; f) - 4x - 8x = - 12x ;
g) - 3a + 13a = 10a ; h) 5a(-3a) = - 15a² ;
i) - 7a - 5a = - 12a ; j) - 7a(3a) = - 21a² ;
k) 6(-5a²) = - 30a² ; l) 20a - 8a = 12a .

Exercice 7 : A = 10x + 2x² B = - 4x² + 5x C = 3x - 6 D = x
E = - 2x² + 1 - 11x F = - 19x² + 5 - 2x G = 5 + x² + 7x

Développer un produit

Exercice 2 : A = - 15x + 12 B = 8x² - 46x + 56 C = - 5x² - 31x + 21

Exercice 3 : A = 10x - 35 B = 12x - 4 C = - 3x + 19 D = 15x - 5 E = 2x + 2

Exercice 4 : A = $x^2 + 7x + 12$ B = $-2x^2 + 7x - 3$ C = $-8x^2 + 2x + 3$ D = $35x^2 - 38x + 8$
E = $-24x^2 - 11x - 28$

Exercice 5 : A = $-6x^2 - 13x - 23$ B = $4x^2 - 7x + 1$ C = $6x^2 - 2x - 4$ D = $9x^2 - 17x + 6$
E = $2x^2 - x - 11$