

Exercice 1

Développer et réduire les expressions suivantes :

$$A = (-7x + 7)(-x - 1)$$

$$B = (-8x + 6)(4x + 10)$$

$$C = (7x - 7)(10x + 8)$$

$$D = (-7x - 1)(-3x + 6)$$

$$E = (-x - 2)(-4x - 7)$$

$$F = (6x - 4)(8x - 5)$$

Exercice 2

Développer et réduire les expressions suivantes :

$$A = (5x - 10)(-8x + 6)$$

$$B = (-6x + 10)(x + 8)$$

$$C = (7x - 3)(7x + 8)$$

$$D = (8x - 1)(2x + 5)$$

$$E = (-x - 10)(-8x + 3)$$

$$F = (3x + 3)(-3x + 4)$$

Exercice 3

Développer et réduire les expressions suivantes :

$$A = (5x - 4)(-10x + 9)$$

$$B = (2x - 9)(4x + 3)$$

$$C = (4x - 7)(6x + 1)$$

$$D = (3x - 5)(6x + 8)$$

$$E = (-6x + 6)(-8x + 6)$$

$$F = (10x - 7)(6x + 2)$$

Exercice 4

Développer et réduire les expressions suivantes :

$$A = (2x - 4)(10x - 9)$$

$$B = (10x - 2)(10x - 6)$$

$$C = (-3x - 10)(-6x + 4)$$

$$D = (-8x - 6)(8x + 10)$$

$$E = (-7x + 9)(-2x + 6)$$

$$F = (-9x + 6)(5x - 6)$$

Exercice 5

Développer et réduire les expressions suivantes :

$$A = (4x - 2)(-4x + 7)$$

$$B = (5x + 3)(9x - 7)$$

$$C = (-5x - 9)(-7x + 1)$$

$$D = (-6x + 2)(-10x - 9)$$

$$E = (10x + 10)(-10x + 5)$$

$$F = (-9x + 6)(-5x + 1)$$

Exercice 6

Développer et réduire les expressions suivantes :

$$A = (-8x - 8)(-7x - 6)$$

$$B = (4x - 9)(-8x - 5)$$

$$C = (9x - 9)(-4x - 6)$$

$$D = (7x - 5)(-9x + 6)$$

$$E = (10x + 1)(-x - 10)$$

$$F = (-4x + 10)(-8x + 2)$$

Corrigé de l'exercice 1

Développer et réduire les expressions suivantes :

$$A = (-7x + 7)(-x - 1)$$

$$A = 7x^2 + 7x + (-7x) + (-7)$$

$$A = 7x^2 - 7$$

$$B = (-8x + 6)(4x + 10)$$

$$B = -32x^2 + (-80x) + 24x + 60$$

$$B = -32x^2 - 56x + 60$$

$$C = (7x - 7)(10x + 8)$$

$$C = 70x^2 + 56x + (-70x) + (-56)$$

$$C = 70x^2 - 14x - 56$$

$$D = (-7x - 1)(-3x + 6)$$

$$D = 21x^2 + (-42x) + 3x + (-6)$$

$$D = 21x^2 - 39x - 6$$

$$E = (-x - 2)(-4x - 7)$$

$$E = 4x^2 + 7x + 8x + 14$$

$$E = 4x^2 + 15x + 14$$

$$F = (6x - 4)(8x - 5)$$

$$F = 48x^2 + (-30x) + (-32x) + 20$$

$$F = 48x^2 - 62x + 20$$

Corrigé de l'exercice 2

Développer et réduire les expressions suivantes :

$$A = (5x - 10)(-8x + 6)$$

$$A = -40x^2 + 30x + 80x + (-60)$$

$$A = -40x^2 + 110x - 60$$

$$B = (-6x + 10)(x + 8)$$

$$B = -6x^2 + (-48x) + 10x + 80$$

$$B = -6x^2 - 38x + 80$$

$$C = (7x - 3)(7x + 8)$$

$$C = 49x^2 + 56x + (-21x) + (-24)$$

$$C = 49x^2 + 35x - 24$$

$$D = (8x - 1)(2x + 5)$$

$$D = 16x^2 + 40x + (-2x) + (-5)$$

$$D = 16x^2 + 38x - 5$$

$$E = (-x - 10)(-8x + 3)$$

$$E = 8x^2 + (-3x) + 80x + (-30)$$

$$E = 8x^2 + 77x - 30$$

$$F = (3x + 3)(-3x + 4)$$

$$F = -9x^2 + 12x + (-9x) + 12$$

$$F = -9x^2 + 3x + 12$$

Corrigé de l'exercice 3

Développer et réduire les expressions suivantes :

$$A = (5x - 4)(-10x + 9)$$

$$A = -50x^2 + 45x + 40x + (-36)$$

$$A = -50x^2 + 85x - 36$$

$$B = (2x - 9)(4x + 3)$$

$$B = 8x^2 + 6x + (-36x) + (-27)$$

$$B = 8x^2 - 30x - 27$$

$$C = (4x - 7)(6x + 1)$$

$$C = 24x^2 + 4x + (-42x) + (-7)$$

$$C = 24x^2 - 38x - 7$$

$$D = (3x - 5)(6x + 8)$$

$$D = 18x^2 + 24x + (-30x) + (-40)$$

$$D = 18x^2 - 6x - 40$$

$$E = (-6x + 6)(-8x + 6)$$

$$E = 48x^2 + (-36x) + (-48x) + 36$$

$$E = 48x^2 - 84x + 36$$

$$F = (10x - 7)(6x + 2)$$

$$F = 60x^2 + 20x + (-42x) + (-14)$$

$$F = 60x^2 - 22x - 14$$

Corrigé de l'exercice 4

Développer et réduire les expressions suivantes :

$$A = (2x - 4)(10x - 9)$$

$$A = 20x^2 + (-18x) + (-40x) + 36$$

$$A = 20x^2 - 58x + 36$$

$$B = (10x - 2)(10x - 6)$$

$$B = 100x^2 + (-60x) + (-20x) + 12$$

$$B = 100x^2 - 80x + 12$$

$$C = (-3x - 10)(-6x + 4)$$

$$C = 18x^2 + (-12x) + 60x + (-40)$$

$$C = 18x^2 + 48x - 40$$

$$D = (-8x - 6)(8x + 10)$$

$$D = -64x^2 + (-80x) + (-48x) + (-60)$$

$$D = -64x^2 - 128x - 60$$

$$E = (-7x + 9)(-2x + 6)$$

$$E = 14x^2 + (-42x) + (-18x) + 54$$

$$E = 14x^2 - 60x + 54$$

$$F = (-9x + 6)(5x - 6)$$

$$F = -45x^2 + 54x + 30x + (-36)$$

$$F = -45x^2 + 84x - 36$$

Corrigé de l'exercice 5

Développer et réduire les expressions suivantes :

$$A = (4x - 2)(-4x + 7)$$

$$A = -16x^2 + 28x + 8x + (-14)$$

$$A = -16x^2 + 36x - 14$$

$$B = (5x + 3)(9x - 7)$$

$$B = 45x^2 + (-35x) + 27x + (-21)$$

$$B = 45x^2 - 8x - 21$$

$$C = (-5x - 9)(-7x + 1)$$

$$C = 35x^2 + (-5x) + 63x + (-9)$$

$$C = 35x^2 + 58x - 9$$

$$D = (-6x + 2)(-10x - 9)$$

$$D = 60x^2 + 54x + (-20x) + (-18)$$

$$D = 60x^2 + 34x - 18$$

$$E = (10x + 10)(-10x + 5)$$

$$E = -100x^2 + 50x + (-100x) + 50$$

$$E = -100x^2 - 50x + 50$$

$$F = (-9x + 6)(-5x + 1)$$

$$F = 45x^2 + (-9x) + (-30x) + 6$$

$$F = 45x^2 - 39x + 6$$

Corrigé de l'exercice 6

Développer et réduire les expressions suivantes :

$$A = (-8x - 8)(-7x - 6)$$

$$A = 56x^2 + 48x + 56x + 48$$

$$A = 56x^2 + 104x + 48$$

$$B = (4x - 9)(-8x - 5)$$

$$B = -32x^2 + (-20x) + 72x + 45$$

$$B = -32x^2 + 52x + 45$$

$$C = (9x - 9)(-4x - 6)$$

$$C = -36x^2 + (-54x) + 36x + 54$$

$$C = -36x^2 - 18x + 54$$

$$D = (7x - 5)(-9x + 6)$$

$$D = -63x^2 + 42x + 45x + (-30)$$

$$D = -63x^2 + 87x - 30$$

$$E = (10x + 1)(-x - 10)$$

$$E = -10x^2 + (-100x) + (-x) + (-10)$$

$$E = -10x^2 - 101x - 10$$

$$F = (-4x + 10)(-8x + 2)$$

$$F = 32x^2 + (-8x) + (-80x) + 20$$

$$F = 32x^2 - 88x + 20$$