

**Exercice 1**

Développer et réduire les expressions suivantes :

$$A = (-10x - 7)(-4x + 5)$$

$$B = (-4x + 6)(-8x - 7)$$

$$C = (-x + 10)(-9x - 8)$$

$$D = (10x - 3)(-7x + 3)$$

$$E = (-2x + 3)(-8x + 10)$$

$$F = (-4x - 10)(-x + 9)$$

**Exercice 2**

Développer et réduire les expressions suivantes :

$$A = (7x - 3)(-10x - 2)$$

$$B = (5x - 7)(8x + 10)$$

$$C = (4x - 4)(-7x - 10)$$

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

$$E = (10x - 6)(7x + 10)$$

$$F = (-8x - 5)(-2x - 9)$$

**Exercice 3**

Développer et réduire les expressions suivantes :

$$A = (-5x - 8)(-9x - 5)$$

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

$$C = (8x - 10)(2x - 7)$$

$$D = (6x - 1)(5x + 6)$$

$$E = (3x + 6)(-6x - 4)$$

$$F = (-2x - 8)(-5x + 2)$$

**Exercice 4**

Développer et réduire les expressions suivantes :

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

$$B = (-8x - 3)(-4x + 7)$$

$$C = (5x + 9)(-2x + 3)$$

$$D = (-x - 4)(5x - 5)$$

$$E = (-10x - 2)(10x - 1)$$

$$F = (7x + 9)(-10x - 10)$$

**Exercice 5**

Développer et réduire les expressions suivantes :

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

$$B = (-5x + 7)(-8x - 6)$$

$$C = (5x - 3)(-8x - 10)$$

$$D = (-7x - 3)(-10x - 8)$$

$$E = (10x + 5)(x + 1)$$

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

**Exercice 6**

Développer et réduire les expressions suivantes :

$$A = (4x + 3)(-4x - 10)$$

$$B = (-6x - 2)(10x - 5)$$

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

$$D = (-10x - 1)(-2x - 7)$$

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

$$F = (-x + 10)(10x - 10)$$

**Corrigé de l'exercice 1**

Développer et réduire les expressions suivantes :

$$A = (-10x - 7)(-4x + 5)$$

$$A = 40x^2 + (-50x) + 28x + (-35)$$

$$A = 40x^2 - 22x - 35$$

$$B = (-4x + 6)(-8x - 7)$$

$$B = 32x^2 + 28x + (-48x) + (-42)$$

$$B = 32x^2 - 20x - 42$$

$$C = (-x + 10)(-9x - 8)$$

$$C = 9x^2 + 8x + (-90x) + (-80)$$

$$C = 9x^2 - 82x - 80$$

$$D = (10x - 3)(-7x + 3)$$

$$D = -70x^2 + 30x + 21x + (-9)$$

$$D = -70x^2 + 51x - 9$$

$$E = (-2x + 3)(-8x + 10)$$

$$E = 16x^2 + (-20x) + (-24x) + 30$$

$$E = 16x^2 - 44x + 30$$

$$F = (-4x - 10)(-x + 9)$$

$$F = 4x^2 + (-36x) + 10x + (-90)$$

$$F = 4x^2 - 26x - 90$$

**Corrigé de l'exercice 2**

Développer et réduire les expressions suivantes :

$$A = (7x - 3)(-10x - 2)$$

$$A = -70x^2 + (-14x) + 30x + 6$$

$$A = -70x^2 + 16x + 6$$

$$B = (5x - 7)(8x + 10)$$

$$B = 40x^2 + 50x + (-56x) + (-70)$$

$$B = 40x^2 - 6x - 70$$

$$C = (4x - 4)(-7x - 10)$$

$$C = -28x^2 + (-40x) + 28x + 40$$

$$C = -28x^2 - 12x + 40$$

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

$$D = 48x^2 + 18x + (-48x) + (-18)$$

$$D = 48x^2 - 30x - 18$$

$$E = (10x - 6)(7x + 10)$$

$$E = 70x^2 + 100x + (-42x) + (-60)$$

$$E = 70x^2 + 58x - 60$$

$$F = (-8x - 5)(-2x - 9)$$

$$F = 16x^2 + 72x + 10x + 45$$

$$F = 16x^2 + 82x + 45$$

**Corrigé de l'exercice 3**

Développer et réduire les expressions suivantes :

$$A = (-5x - 8)(-9x - 5)$$

$$A = 45x^2 + 25x + 72x + 40$$

$$A = 45x^2 + 97x + 40$$

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

$$B = 63x^2 + 42x + (-18x) + (-12)$$

$$B = 63x^2 + 24x - 12$$

$$C = (8x - 10)(2x - 7)$$

$$C = 16x^2 + (-56x) + (-20x) + 70$$

$$C = 16x^2 - 76x + 70$$

$$D = (6x - 1)(5x + 6)$$

$$D = 30x^2 + 36x + (-5x) + (-6)$$

$$D = 30x^2 + 31x - 6$$

$$E = (3x + 6)(-6x - 4)$$

$$E = -18x^2 + (-12x) + (-36x) + (-24)$$

$$E = -18x^2 - 48x - 24$$

$$F = (-2x - 8)(-5x + 2)$$

$$F = 10x^2 + (-4x) + 40x + (-16)$$

$$F = 10x^2 + 36x - 16$$

### Corrigé de l'exercice 4

Développer et réduire les expressions suivantes :

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

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

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

$$B = (-8x - 3)(-4x + 7)$$

$$B = 32x^2 + (-56x) + 12x + (-21)$$

$$B = 32x^2 - 44x - 21$$

$$C = (5x + 9)(-2x + 3)$$

$$C = -10x^2 + 15x + (-18x) + 27$$

$$C = -10x^2 - 3x + 27$$

$$D = (-x - 4)(5x - 5)$$

$$D = -5x^2 + 5x + (-20x) + 20$$

$$D = -5x^2 - 15x + 20$$

$$E = (-10x - 2)(10x - 1)$$

$$E = -100x^2 + 10x + (-20x) + 2$$

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

$$F = (7x + 9)(-10x - 10)$$

$$F = -70x^2 + (-70x) + (-90x) + (-90)$$

$$F = -70x^2 - 160x - 90$$

### Corrigé de l'exercice 5

Développer et réduire les expressions suivantes :

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

$$A = -42x^2 + (-49x) + 48x + 56$$

$$A = -42x^2 - x + 56$$

$$B = (-5x + 7)(-8x - 6)$$

$$B = 40x^2 + 30x + (-56x) + (-42)$$

$$B = 40x^2 - 26x - 42$$

$$C = (5x - 3)(-8x - 10)$$

$$C = -40x^2 + (-50x) + 24x + 30$$

$$C = -40x^2 - 26x + 30$$

$$D = (-7x - 3)(-10x - 8)$$

$$D = 70x^2 + 56x + 30x + 24$$

$$D = 70x^2 + 86x + 24$$

$$E = (10x + 5)(x + 1)$$

$$E = 10x^2 + 10x + 5x + 5$$

$$E = 10x^2 + 15x + 5$$

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

$$F = -8x^2 + 4x + 40x + (-20)$$

$$F = -8x^2 + 44x - 20$$

**Corrigé de l'exercice 6**

Développer et réduire les expressions suivantes :

$$A = (4x + 3)(-4x - 10)$$

$$A = -16x^2 + (-40x) + (-12x) + (-30)$$

$$A = -16x^2 - 52x - 30$$

$$B = (-6x - 2)(10x - 5)$$

$$B = -60x^2 + 30x + (-20x) + 10$$

$$B = -60x^2 + 10x + 10$$

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

$$C = -15x^2 + (-10x) + 9x + 6$$

$$C = -15x^2 - x + 6$$

$$D = (-10x - 1)(-2x - 7)$$

$$D = 20x^2 + 70x + 2x + 7$$

$$D = 20x^2 + 72x + 7$$

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

$$E = -9x^2 + (-54x) + (-6x) + (-36)$$

$$E = -9x^2 - 60x - 36$$

$$F = (-x + 10)(10x - 10)$$

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

$$F = -10x^2 + 110x - 100$$