



Exercice

Développer puis réduire les expressions suivantes :

$$A = (4x + 5)(3x + 2)$$

$$B = (5x - 2)(x + 7)$$

$$C = (4x - 3)(5x - 2)$$

$$D = (-3x + 5)(2x + 2)$$

$$E = (-5x - 4)(4x - 7)$$

$$F = (7x - 3)(-4x - 2)$$

$$G = (3x - 6)^2$$

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



Exercice

$$A = (4x + 5)(3x + 2)$$

$$A = 4x \times 3x + 4x \times 2 + 5 \times 3x + 5 \times 2$$

$$A = 12x^2 + 8x + 15x + 10$$

$$A = 12x^2 + 23x + 10$$

$$C = (4x - 3)(5x - 2)$$

$$C = 4x \times 5x + 4x \times (-2) - 3 \times 5x - 3 \times (-2)$$

$$C = 20x^2 - 8x - 15x + 6$$

$$C = 20x^2 - 23x + 6$$

$$E = (-5x - 4)(4x - 7)$$

$$E = -5x \times 4x - 5x \times (-7) - 4 \times 4x - 4 \times (-7)$$

$$E = -20x^2 + 35x - 16x + 28$$

$$E = -20x^2 + 19x + 28$$

$$G = (3x - 6)^2$$

$$G = (3x - 6)(3x - 6)$$

$$G = 3x \times 3x + 3x \times (-6) - 6 \times 3x - 6 \times (-6)$$

$$G = 9x^2 - 18x - 18x + 36$$

$$G = 9x^2 - 36x + 36$$

$$B = (5x - 2)(x + 7)$$

$$B = 5x \times x + 5x \times 7 - 2 \times x - 2 \times 7$$

$$B = 5x^2 + 35x - 2x - 14$$

$$B = 5x^2 + 33x - 14$$

$$D = (-3x + 5)(2x + 2)$$

$$D = -3x \times 2x - 3x \times 2 + 5 \times 3x + 5 \times 2$$

$$D = -6x^2 - 6x + 15x + 10$$

$$D = -6x^2 + 9x + 10$$

$$F = (7x - 3)(-4x - 2)$$

$$F = 7x \times (-4x) + 7x \times (-2) - 3 \times (-4x) - 3 \times (-2)$$

$$F = -28x^2 - 14x + 12x + 6$$

$$F = -28x^2 - 2x + 6$$

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

$$H = (-2x + 7)(-2x + 7)$$

$$H = -2x \times (-2x) - 2x \times 7 + 7 \times (-2x) + 7 \times 7$$

$$H = 4x^2 - 14x - 14x + 49$$

$$H = 4x^2 - 28x + 49$$