

☐ **Entraînement 1** Développe et réduis si possible les expressions suivantes

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

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

$$A = 8x^2 + 22x + 15$$

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

$$B = 8x^2 - 12x + 10x - 15$$

$$B = 8x^2 - 2x - 15$$

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

$$C = 8x^2 + 12x - 10x - 15$$

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

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

$$D = 8x^2 - 12x - 10x + 15$$

$$D = 8x^2 - 22x + 15$$

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

$$E = -8x^2 - 12x + 10x + 15$$

$$E = -8x^2 - 2x + 15$$

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

$$F = 8x^2 - 12x - 10x + 15$$

$$F = 8x^2 - 22x + 15$$

☐ **Entraînement 2** Développe et réduis si possible les expressions suivantes

$$A = (7x + 1)(4x + 2)$$

$$A = 28x^2 + 14x + 4x + 2$$

$$A = 28x^2 + 18x + 2$$

$$B = (7x + 1)(4x - 2)$$

$$B = 28x^2 - 14x + 4x - 2$$

$$B = 28x^2 + 18x - 2$$

$$C = (7x - 2)(4x + 1)$$

$$C = 28x^2 + 7x - 8x - 2$$

$$C = 28x^2 - 1x - 2$$

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

$$D = x^2 - 3x - 5x + 15$$

$$D = x^2 - 8x + 15$$

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

$$E = 6x^2 - 6x - 2x + 2$$

$$E = 6x^2 - 8x + 2$$

$$F = (-3x + 5)(x + 1)$$

$$F = -3x^2 - 3x + 5x + 5$$

$$F = -3x^2 + 2x + 5$$

☐ **Entraînement 3** Développe et réduis si possible les expressions suivantes

$$A = (7x + 1)(4x + 2) + 4x + 3$$

$$A = 28x^2 + 14x + 4x + 2 + 4x + 3$$

$$A = 28x^2 + 14x + 4x + 4x + 2 + 3$$

$$A = 28x^2 + 22x + 5$$

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

$$B = 8x^2 + 12x + 2x + 3 + 5x^2 + 2x$$

$$B = 8x^2 + 5x^2 + 12x + 2x + 2x + 3$$

$$B = 13x^2 + 16x + 3$$

$$C = (4x + 1)(4x - 2) + 7x - 3$$

$$C = 16x^2 - 8x + 4x - 2 + 7x - 3$$

$$C = 16x^2 - 8x + 4x + 7x - 2 - 3$$

$$C = 16x^2 + 3x - 5$$

$$D = (5x - 2)(2x + 4) + 10x^2 + 2$$

$$D = 10x^2 + 20x - 4x - 8 + 10x^2 + 2$$

$$D = 10x^2 + 10x^2 + 20x - 4x - 8 + 2$$

$$D = 20x^2 + 16x - 6$$

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

$$E = 5x^2 - 3x + 4 + 12x^2 + 8x + 3x + 2$$

$$E = 5x^2 + 12x^2 - 3x + 8x + 3x + 2 + 4$$

$$E = 17x^2 + 8x + 6$$

$$F = 10x^2 + 2x + 6 + (5x - 1)(2x + 4)$$

$$F = 10x^2 + 2x + 6 + 10x^2 + 20x - 2x - 4$$

$$F = 10x^2 + 10x^2 + 2x + 20x - 2x - 4 + 6$$

$$F = 20x^2 + 20x + 2$$

