

Double distributivité

$$A = (x+1)(x+3).$$

$$= x \times x + x \times 3 + 1 \times x + 1 \times 3$$

$$= x^2 + 3x + x + 3$$

$$= x^2 + 4x + 3$$

$$B = (2x+8)(x+5)$$

$$= 2x \times x + 2x \times 5 + 8 \times x + 8 \times 5$$

$$= 2x^2 + 10x + 8x + 40$$

$$= 2x^2 + 18x + 40$$

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

$$= 4x \times x + 4x \times 2 + (-1) \times x + (-1) \times 2$$

$$= 4x^2 + 8x - x - 2$$

$$= 4x^2 + 7x - 2$$

$$D = (5x + 4)(4x + 7)$$

$$= 5x \times 4x + 5x \times 7 + 4 \times 4x + 4 \times 7$$

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

$$= 20x^2 + 51x + 28$$

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

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

$$= 12x^2 - 8x + 9x - 6$$

$$= 12x^2 + x - 6.$$

$$F = (7x - 4)(2x - 1).$$

$$= 7x \times 2x + 7x \times (-1) + (-4) \times 2x + (-4) \times (-1)$$

$$= 14x^2 - 7x - 8x + 4.$$

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

$$G = (5x - 4)(4x - 2).$$

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

$$= 20x^2 - 10x - 16x + 8$$

$$= 20x^2 - 26x + 8$$