

DEVELOPPER

$$kx(a+b) = kxa + kxb$$

k, a, b 3 nombres

DISTRIBUTIVITÉ

FACTORISER

$$kxa + kxb = kx(a+b)$$

FACTEUR COMMUN

DEVELOPPER  
FACTORISER

$$7(3x+4) = 7 \times 3x + 7 \times 4 \\ = 21x + 28$$

$$2x(x-8) = 2x \times x + 2x \times (-8) \\ = 2x^2 - 16x$$

"DOUBLE DISTRIBUTIVITÉ"

$$(a+b)(c+d) = ac + ad + bc + bd$$

a, b, c, d 4 nbs

$$(x+5)(3x-1) = x \times 3x + x \times (-1) + 5 \times 3x + 5 \times (-1) \\ = 3x^2 - x + 15x - 5 \\ = 3x^2 + 14x - 5$$

$$(3x-1)(2x-4) = 3x \times 2x + 3x \times (-4) - 1 \times 2x - 1 \times (-4) \\ = 6x^2 - 12x - 2x + 4 \\ = 6x^2 - 14x + 4$$

$$7x + 21 = 7 \times x + 7 \times 3 \\ = 7(x+3)$$

$$3x^2 - 5x = 3x \times x - 5 \times x \\ = x(3x - 5)$$

$$2x(x+4) + (x+4)(5x+1) \\ = (x+4)(2x + (5x+1)) \\ = (x+4)(7x+1)$$

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