

## Correction exercices 59 ; 60 ; 61 et 62 p 46 :

**59** a.  $(x+5)(x+3) = x^2 + 5x + 3x + 15$

b.  $(3x+2)(x+4) = 3x^2 + 12x + 2x + 8$

c.  $(x+3)(x-2) = x^2 - 2x + 3x - 6$

d.  $(x-4)(x-1) = x^2 - 1x - 4x + 4$

**60** On développe à l'aide de la propriété :

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

●  $A = (x+4)(x+5)$

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

$$A = x^2 + 5x + 4x + 20$$

$$A = x^2 + 9x + 20$$

●  $B = (x-3)(x+8)$

$$B = x \times x + x \times 8 - 3 \times x - 3 \times 8$$

$$B = x^2 + 8x - 3x - 24$$

$$B = x^2 + 5x - 24$$

**61** ●  $C = (2y+1)(y+3)$

$$C = 2y \times y + 2y \times 3 + 1 \times y + 1 \times 3$$

$$C = 2y^2 + 6y + y + 3$$

$$C = 2y^2 + 7y + 3$$

●  $D = (y-5)(y-2)$

$$D = y \times y - y \times 2 - 5 \times y + 5 \times 2$$

$$D = y^2 - 2y - 5y + 10$$

$$D = y^2 - 7y + 10$$

**62** ●  $E = (4a+3)(3a+2)$

$$E = 4a \times 3a + 4a \times 2 + 3 \times 3a + 3 \times 2$$

$$E = 12a^2 + 8a + 9a + 6$$

$$E = 12a^2 + 17a + 6$$

●  $F = (3-2a)(a+1)$

$$F = 3 \times a + 3 \times 1 - 2a \times a - 2a \times 1$$

$$F = 3a + 3 - 2a^2 - 2a$$

$$F = -2a^2 + a + 3$$