

## exercice 32:

$$A = (x + 2)^2$$

$$= x^2 + 2 \times x \times 2 + 2^2$$

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

$$(a+b)^2 = a^2 + 2ab + b^2$$

$$(a-b)^2 = a^2 - 2ab + b^2$$

$$(a-b)(a+b) = a^2 - b^2$$

$$B = (y - 3)^2$$

$$= y^2 - 2 \times y \times 3 + 3^2$$

$$= y^2 - 6y + 9$$

$$C = (3a + 4)^2$$

$$= (3a)^2 + 2 \times 3a \times 4 + 4^2.$$

$$= 9a^2 + 24a + 16$$

$$D = (7 - 2b)^2$$

$$= 7^2 - 2 \times 7 \times 2b + (2b)^2.$$

$$= 49 - 28b + 4b^2$$

exercice:

$$A = (x + 6)^2.$$

$$= x^2 + 2 \times x \times 6 + 6^2$$

$$= x^2 + 12x + 36.$$

$$B = (5x - 2)^2.$$

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

$$= 25x^2 - 20x + 4$$

$$C = (8 - 4x)^2.$$

$$= 8^2 - 2 \times 8 \times 4x + (4x)^2$$

$$= 64 - 64x + 16x^2.$$

$$D = (9x + 7)^2.$$

$$= (9x)^2 + 2 \times 9x \times 7 + 7^2$$

$$= 81x^2 + 126x + 49.$$

$$E = (5 - 3x)^2.$$

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

$$= 25 - 30x + 9x^2$$

$$F = (x + 1)^2.$$

$$= x^2 + 2 \times x \times 1 + 1^2$$

$$= x^2 + 2x + 1.$$

$$G = (x - 2)^2 + (x + 3)^2.$$

$$= x^2 - 2 \times x \times 2 + 2^2 + x^2 + 2 \times x \times 3 + 3^2$$

$$= x^2 - 4x + 4 + x^2 + 6x + 9$$

$$= 2x^2 + 2x + 13.$$