

Exercice **Identités** **(1) رين**

أنشرثم بسط ما يلي :

$$A = (\sqrt{2} - 3x)(\sqrt{2} + 3x)$$

$$B = (a\sqrt{11} - b)^2$$

$$C = (a\sqrt{3} + 3b)^2$$

Exercice **Identités** **(2) تمرين**

أنشرثم بسط ما يلي :

$$A = (4x^2 - 25) - (x - 6)(2x + 5)$$

$$B = (5x - 7)^2 - (25x^2 - 49) + 2x(5x - 7)$$

$$E = (5x - 1)^2 - 121$$

$$F = (2x - 1)^2 - 5$$

$$H = (4x - 1)^2 - (x - 2)^2$$

Exercice **Développement et simplification** **(1) تمرين**

أنشرثم بسط ما يلي :

$$A = (-3x + 2)(-2x - 4) - 3(x - 6)(2x + 5)$$

$$B = (-7x^3 + 5)(-2x^2 + 3x - 1) - 5x^3(2x^2 + 3x - 6) - 4x^5 + 35x^4 - 35x^3 + \sqrt{2008}$$

$$C = (-3x + 2)(-5x^2 + 2x - 4) - 3(x - 6)(2x + 5)$$

Exercice **Développement et simplification** **(2) تمرين**

أنشرثم بسط ما يلي :

$$A = (\sqrt{5} - x)(\sqrt{5} + x) + 3x^2 - 7x(2x - 1)$$

$$B = (x\sqrt{3} - y)^2 - 3x^2 + 2y^2 + 3xy\sqrt{3} - 5$$

$$C = (3x\sqrt{7} + 2)^2 - 64x^2 - 13x\sqrt{7} + 11\sqrt{5}$$

$$D = (x\sqrt{11} + y\sqrt{3})^2 - 12x^2 - 6y^2 - 13xy\sqrt{33}$$

Exercice **Factorisation** **(3) تمرين**

عمل الصيغ الجبرية التالية :

$$A = (4x^2 - 25) - (x - 6)(2x + 5)$$

$$B = (3x - 7)^2 - (9x^2 - 49) - 5x(3x - 7)$$

$$C = 25x^2 - 30x + 9 + (3x - 7)(5x - 3) - 10x + 6$$

$$D = (\sqrt{2}x - 3)^2 - (7x\sqrt{2}x^2 - 21x)$$

$$E = (3x - 1)^2 - 25$$

$$F = (3x - 1)^2 - 7$$

$$H = (3x - 1)^2 - (x - 3)^2$$

$$K = 2(3x - 1)^2 - (x - 3)^2$$

$$M = (2x - 7)^2 - 16$$

$$T = 81(3x - 2)^2 - 16$$

Exercice **Equations** **(4) تمرين**

حل المعادلات الآتية :

$$(x^2 - 9) - (x - 3)(2x - 5) = 0$$

$$(2x - 3)^2 - (4x^2 - 9) + 3x(2x - 3) = 0$$

$$(5x + 3)^2 + (3x - 7)(5x + 3) - 10x - 6 = 0$$

$$(\sqrt{2}x - 3)^2 - (2x^2 - 9) + 3x(\sqrt{2}x - 3) = 0$$

$$(3x - 1)^2 - 25 = 0$$

$$(3x - 1)^2 - 7 = 0$$

$$(3x - 1)^2 - (x - 3)^2 = 0$$

$$2(3x - 1)^2 - (x - 3)^2 = 0$$

$$(2x - 7)^2 = 16$$

$$81(3x - 2)^2 = 16$$