

حلل العبارات الآتية :

$$\text{أ) } 2x^3 - x \quad ; \quad \text{ب) } 2x^3 - 3x^2 + 6x \quad ; \quad \text{ج) } 2x(x-1) + (3x+2)(x-1) \quad ; \quad \text{د) } x^2 - 0,49$$

الحل :

$$\text{أ) } 2x^3 - x = x(2x^2 - 1) = x[(\sqrt{2}x)^2 - 1] = x(\sqrt{2}x - 1)(\sqrt{2}x + 1)$$

$$\text{ب) } 2x^3 - 3x^2 + 6x = x(x^2 - 3x + 6)$$

$$\text{ج) } 2x(x-1) + (3x+2)(x-1) = (x-1)(2x+3x+2) = (x-1)(5x+2)$$

$$\text{د) } x^2 - 0,49 = (x - 0,7)(x + 0,7)$$