

$$E = (x+1)^2 - x - 1 \text{ عبارة جبرية حيث}$$

$$(1) \text{ بملاحظة أن } -x - 1 = -(x+1) \text{ ، حل العبارة } E$$

$$(2) \text{ حل العبارات الآتية :}$$

$$(2x-3)(x+1) - (4-6x)(x+3) \text{ (ج) ، } 4x^2 - 9 + (2x-3) \text{ (ب) ، } (3x-1)(x-1) - x(1-3x) \text{ (أ)}$$

الحل :

$$E = (x+1)^2 - (x+1) = (x+1)(x+1-1) = x(x+1) \quad (1)$$

$$(3x-1)(x-1) - x(1-3x) = (3x-1)(x-1) + x(3x-1) = (3x-1)(x-1+x) \quad (2)$$

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

$$4x^2 - 9 + (2x-3) = (2x-3)(2x+3) + (2x-3) = (2x-3)(2x+3+1) \quad (ب)$$

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

$$(2x-3)(x+1) - (4-6x)(x+3) = (2x-3)(x+1) + 2(3x-2)(x+3) = (2x-3)(x+1+2x+6) \quad (ج)$$

$$(2x-3)(x+1) - (4-6x)(x+3) = (2x-3)(3x+7)$$