

## بعض أشكال عملية الضرب

$$1. (a+b)^2 = a^2 + 2ab + b^2$$

مثال

$$(G+4D)^2 = (G)^2 + 2(G)(4D) + (4D)^2 \\ = G^2 + 8DG + 16D^2$$

$$(2y+3t)^2 = (2y)^2 + 2(2y)(3t) + (3t)^2 \\ = 4y^2 + 12ty + 9t^2$$

$$(4x+v)^2 = (4x)^2 + 2(4x)(v) + (v)^2 \\ = 16x^2 + 8vx + v^2$$

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

مثال

$$(4j-5n)^2 = (4j)^2 - 2(4j)(5n) + (5n)^2 \\ = 16j^2 - 40jn + 25n^2$$

$$(3K-S)^2 = (3K)^2 - 2(3K)(S) + (S)^2 \\ = 9K^2 - 6KS + S^2$$

$$(5y-4g)^2 = (5y)^2 - 2(5y)(4g) + (4g)^2 \\ = 25y^2 - 40gy + 16g^2$$

$$3. (a+b)(a-b) = a^2 - b^2$$

مثال

$$(5U+2J)(5U-2J) = (5U)^2 - (2J)^2 \\ = 25U^2 - 4J^2$$

$$(4C+N)(4C-N) = (4C)^2 - (N)^2 \\ = 16C^2 - N^2$$

$$(4R+N)(4R-N) = (4R)^2 - (N)^2 \\ = 16R^2 - N^2$$