

## بعض أشكال عملية الضرب

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

مثال

$$(3t+5q)^2 = (3t)^2 + 2(3t)(5q) + (5q)^2 \\ = 9t^2 + 30qt + 25q^2$$

$$(2J+4V)^2 = (2J)^2 + 2(2J)(4V) + (4V)^2 \\ = 4J^2 + 16JV + 16V^2$$

$$(5f+4z)^2 = (5f)^2 + 2(5f)(4z) + (4z)^2 \\ = 25f^2 + 40fz + 16z^2$$

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

مثال

$$(3C-4N)^2 = (3C)^2 - 2(3C)(4N) + (4N)^2 \\ = 9C^2 - 24CN + 16N^2$$

$$(B-4N)^2 = (B)^2 - 2(B)(4N) + (4N)^2 \\ = B^2 - 8BN + 16N^2$$

$$(5S-4W)^2 = (5S)^2 - 2(5S)(4W) + (4W)^2 \\ = 25S^2 - 40SW + 16W^2$$

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

مثال

$$(5G+Q)(5G-Q) = (5G)^2 - (Q)^2 \\ = 25G^2 - Q^2$$

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

$$(e+5i)(e-5i) = (e)^2 - (5i)^2 \\ = e^2 - 25i^2$$