

## بعض أشكال عملية الضرب

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

مثال

$$(3N+4S)^2 = (3N)^2 + 2(3N)(4S) + (4S)^2 \\ = 9N^2 + 24NS + 16S^2$$

$$(2H+V)^2 = (2H)^2 + 2(2H)(V) + (V)^2 \\ = 4H^2 + 4HV + V^2$$

$$(u+5i)^2 = (u)^2 + 2(u)(5i) + (5i)^2 \\ = u^2 + 10iu + 25i^2$$

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

مثال

$$(2z-5f)^2 = (2z)^2 - 2(2z)(5f) + (5f)^2 \\ = 4z^2 - 20fz + 25f^2$$

$$(W-3T)^2 = (W)^2 - 2(W)(3T) + (3T)^2 \\ = W^2 - 6TW + 9T^2$$

$$(4I-2M)^2 = (4I)^2 - 2(4I)(2M) + (2M)^2 \\ = 16I^2 - 16IM + 4M^2$$

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

مثال

$$(Z+3H)(Z-3H) = (Z)^2 - (3H)^2 \\ = Z^2 - 9H^2$$

$$(5I+4J)(5I-4J) = (5I)^2 - (4J)^2 \\ = 25I^2 - 16J^2$$

$$(5p+3b)(5p-3b) = (5p)^2 - (3b)^2 \\ = 25p^2 - 9b^2$$