

## بعض أشكال عملية الضرب

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

مثال

$$(5d+4o)^2 = (5d)^2 + 2(5d)(4o) + (4o)^2 \\ = 25d^2 + 40do + 16o^2$$

$$(2X+4N)^2 = (2X)^2 + 2(2X)(4N) + (4N)^2 \\ = 4X^2 + 16NX + 16N^2$$

$$(3I+4V)^2 = (3I)^2 + 2(3I)(4V) + (4V)^2 \\ = 9I^2 + 24IV + 16V^2$$

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

مثال

$$(4L-3V)^2 = (4L)^2 - 2(4L)(3V) + (3V)^2 \\ = 16L^2 - 24LV + 9V^2$$

$$(3M-2C)^2 = (3M)^2 - 2(3M)(2C) + (2C)^2 \\ = 9M^2 - 12CM + 4C^2$$

$$(5U-4S)^2 = (5U)^2 - 2(5U)(4S) + (4S)^2 \\ = 25U^2 - 40SU + 16S^2$$

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

مثال

$$(3D+2U)(3D-2U) = (3D)^2 - (2U)^2 \\ = 9D^2 - 4U^2$$

$$(3N+5U)(3N-5U) = (3N)^2 - (5U)^2 \\ = 9N^2 - 25U^2$$

$$(3u+4r)(3u-4r) = (3u)^2 - (4r)^2 \\ = 9u^2 - 16r^2$$