

## بعض أشكال عملية الضرب

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

مثال

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

$$(3w + 4i)^2 = (3w)^2 + 2(3w)(4i) + (4i)^2 \\ = 9w^2 + 24iw + 16i^2$$

$$(W + 5N)^2 = (W)^2 + 2(W)(5N) + (5N)^2 \\ = W^2 + 10NW + 25N^2$$

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

مثال

$$(5H - 2K)^2 = (5H)^2 - 2(5H)(2K) + (2K)^2 \\ = 25H^2 - 20HK + 4K^2$$

$$(5Q - 3E)^2 = (5Q)^2 - 2(5Q)(3E) + (3E)^2 \\ = 25Q^2 - 30EQ + 9E^2$$

$$(4v - 2r)^2 = (4v)^2 - 2(4v)(2r) + (2r)^2 \\ = 16v^2 - 16rv + 4r^2$$

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

مثال

$$(5x + 3h)(5x - 3h) = (5x)^2 - (3h)^2 \\ = 25x^2 - 9h^2$$

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

$$(5i + 3o)(5i - 3o) = (5i)^2 - (3o)^2 \\ = 25i^2 - 9o^2$$