

بعض أشكال عملية الضرب

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

مثال

$$(4d+m)^2 = (4d)^2 + 2(4d)(m) + (m)^2 \\ = 16d^2 + 8dm + m^2$$

$$(30+2M)^2 = (30)^2 + 2(30)(2M) + (2M)^2 \\ = 90^2 + 12M0 + 4M^2$$

$$(A+4I)^2 = (A)^2 + 2(A)(4I) + (4I)^2 \\ = A^2 + 8AI + 16I^2$$

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

مثال

$$(W-2T)^2 = (W)^2 - 2(W)(2T) + (2T)^2 \\ = W^2 - 4TW + 4T^2$$

$$(d-5u)^2 = (d)^2 - 2(d)(5u) + (5u)^2 \\ = d^2 - 10du + 25u^2$$

$$(5C-B)^2 = (5C)^2 - 2(5C)(B) + (B)^2 \\ = 25C^2 - 10BC + B^2$$

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

مثال

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

$$(j+5q)(j-5q) = (j)^2 - (5q)^2 \\ = j^2 - 25q^2$$

$$(4P+3J)(4P-3J) = (4P)^2 - (3J)^2 \\ = 16P^2 - 9J^2$$