

## بعض أشكال عملية الضرب

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

مثال

$$(u+3c)^2 = (u)^2 + 2(u)(3c) + (3c)^2 \\ = u^2 + 6cu + 9c^2$$

$$(2o+w)^2 = (2o)^2 + 2(2o)(w) + (w)^2 \\ = 4o^2 + 4ow + w^2$$

$$(W+5V)^2 = (W)^2 + 2(W)(5V) + (5V)^2 \\ = W^2 + 10VW + 25V^2$$

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

مثال

$$(5b-3a)^2 = (5b)^2 - 2(5b)(3a) + (3a)^2 \\ = 25b^2 - 30ab + 9a^2$$

$$(x-4i)^2 = (x)^2 - 2(x)(4i) + (4i)^2 \\ = x^2 - 8ix + 16i^2$$

$$(2o-z)^2 = (2o)^2 - 2(2o)(z) + (z)^2 \\ = 4o^2 - 4oz + z^2$$

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

مثال

$$(3b+4j)(3b-4j) = (3b)^2 - (4j)^2 \\ = 9b^2 - 16j^2$$

$$(3t+5u)(3t-5u) = (3t)^2 - (5u)^2 \\ = 9t^2 - 25u^2$$

$$(D+4G)(D-4G) = (D)^2 - (4G)^2 \\ = D^2 - 16G^2$$