

## بعض أشكال عملية الضرب

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

مثال

$$(5r+x)^2 = (5r)^2 + 2(5r)(x) + (x)^2 \\ = 25r^2 + 10rx + x^2$$

$$(3E+D)^2 = (3E)^2 + 2(3E)(D) + (D)^2 \\ = 9E^2 + 6DE + D^2$$

$$(3u+o)^2 = (3u)^2 + 2(3u)(o) + (o)^2 \\ = 9u^2 + 6ou + o^2$$

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

مثال

$$(3o-2z)^2 = (3o)^2 - 2(3o)(2z) + (2z)^2 \\ = 9o^2 - 12oz + 4z^2$$

$$(2m-r)^2 = (2m)^2 - 2(2m)(r) + (r)^2 \\ = 4m^2 - 4mr + r^2$$

$$(2J-4C)^2 = (2J)^2 - 2(2J)(4C) + (4C)^2 \\ = 4J^2 - 16CJ + 16C^2$$

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

مثال

$$(4E+5V)(4E-5V) = (4E)^2 - (5V)^2 \\ = 16E^2 - 25V^2$$

$$(A+2N)(A-2N) = (A)^2 - (2N)^2 \\ = A^2 - 4N^2$$

$$(2g+5e)(2g-5e) = (2g)^2 - (5e)^2 \\ = 4g^2 - 25e^2$$