

## بعض أشكال عملية الضرب

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

مثال

$$(3A+5Q)^2 = (3A)^2 + 2(3A)(5Q) + (5Q)^2 \\ = 9A^2 + 30AQ + 25Q^2$$

$$(x+3w)^2 = (x)^2 + 2(x)(3w) + (3w)^2 \\ = x^2 + 6wx + 9w^2$$

$$(4T+W)^2 = (4T)^2 + 2(4T)(W) + (W)^2 \\ = 16T^2 + 8TW + W^2$$

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

مثال

$$(4E-3D)^2 = (4E)^2 - 2(4E)(3D) + (3D)^2 \\ = 16E^2 - 24DE + 9D^2$$

$$(4u-n)^2 = (4u)^2 - 2(4u)(n) + (n)^2 \\ = 16u^2 - 8nu + n^2$$

$$(4Q-3V)^2 = (4Q)^2 - 2(4Q)(3V) + (3V)^2 \\ = 16Q^2 - 24QV + 9V^2$$

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

مثال

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

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

$$(4z+5n)(4z-5n) = (4z)^2 - (5n)^2 \\ = 16z^2 - 25n^2$$