

## بعض أشكال عملية الضرب

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

مثال

$$(n+2m)^2 = (n)^2 + 2(n)(2m) + (2m)^2 \\ = n^2 + 4mn + 4m^2$$

$$(5e+d)^2 = (5e)^2 + 2(5e)(d) + (d)^2 \\ = 25e^2 + 10de + d^2$$

$$(5Y+3Q)^2 = (5Y)^2 + 2(5Y)(3Q) + (3Q)^2 \\ = 25Y^2 + 30QY + 9Q^2$$

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

مثال

$$(2h-5j)^2 = (2h)^2 - 2(2h)(5j) + (5j)^2 \\ = 4h^2 - 20hj + 25j^2$$

$$(5G-2H)^2 = (5G)^2 - 2(5G)(2H) + (2H)^2 \\ = 25G^2 - 20GH + 4H^2$$

$$(2r-c)^2 = (2r)^2 - 2(2r)(c) + (c)^2 \\ = 4r^2 - 4cr + c^2$$

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

مثال

$$(2D+5N)(2D-5N) = (2D)^2 - (5N)^2 \\ = 4D^2 - 25N^2$$

$$(R+4T)(R-4T) = (R)^2 - (4T)^2 \\ = R^2 - 16T^2$$

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