

بعض أشكال عملية الضرب

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

مثال

$$(3j+g)^2 = (3j)^2 + 2(3j)(g) + (g)^2 \\ = 9j^2 + 6gj + g^2$$

$$(2n+4t)^2 = (2n)^2 + 2(2n)(4t) + (4t)^2 \\ = 4n^2 + 16nt + 16t^2$$

$$(2T+M)^2 = (2T)^2 + 2(2T)(M) + (M)^2 \\ = 4T^2 + 4MT + M^2$$

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

مثال

$$(3c-5v)^2 = (3c)^2 - 2(3c)(5v) + (5v)^2 \\ = 9c^2 - 30cv + 25v^2$$

$$(3R-D)^2 = (3R)^2 - 2(3R)(D) + (D)^2 \\ = 9R^2 - 6DR + D^2$$

$$(4b-2h)^2 = (4b)^2 - 2(4b)(2h) + (2h)^2 \\ = 16b^2 - 16bh + 4h^2$$

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

مثال

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

$$(3q+r)(3q-r) = (3q)^2 - (r)^2 \\ = 9q^2 - r^2$$

$$(5J+3G)(5J-3G) = (5J)^2 - (3G)^2 \\ = 25J^2 - 9G^2$$