

بعض أشكال عملية الضرب

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

مثال

$$(4d+3q)^2 = (4d)^2 + 2(4d)(3q) + (3q)^2 \\ = 16d^2 + 24dq + 9q^2$$

$$(2f+3z)^2 = (2f)^2 + 2(2f)(3z) + (3z)^2 \\ = 4f^2 + 12fz + 9z^2$$

$$(2W+4V)^2 = (2W)^2 + 2(2W)(4V) + (4V)^2 \\ = 4W^2 + 16VW + 16V^2$$

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

مثال

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

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

$$(3q-5s)^2 = (3q)^2 - 2(3q)(5s) + (5s)^2 \\ = 9q^2 - 30qs + 25s^2$$

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

مثال

$$(5V+3E)(5V-3E) = (5V)^2 - (3E)^2 \\ = 25V^2 - 9E^2$$

$$(w+5i)(w-5i) = (w)^2 - (5i)^2 \\ = w^2 - 25i^2$$

$$(3N+2T)(3N-2T) = (3N)^2 - (2T)^2 \\ = 9N^2 - 4T^2$$