

بعض أشكال عملية الضرب

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

مثال

$$(3R+4V)^2 = (3R)^2 + 2(3R)(4V) + (4V)^2 \\ = 9R^2 + 24RV + 16V^2$$

$$(K+2J)^2 = (K)^2 + 2(K)(2J) + (2J)^2 \\ = K^2 + 4JK + 4J^2$$

$$(5g+4e)^2 = (5g)^2 + 2(5g)(4e) + (4e)^2 \\ = 25g^2 + 40eg + 16e^2$$

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

مثال

$$(5v-2m)^2 = (5v)^2 - 2(5v)(2m) + (2m)^2 \\ = 25v^2 - 20mv + 4m^2$$

$$(3b-2v)^2 = (3b)^2 - 2(3b)(2v) + (2v)^2 \\ = 9b^2 - 12bv + 4v^2$$

$$(i-3x)^2 = (i)^2 - 2(i)(3x) + (3x)^2 \\ = i^2 - 6ix + 9x^2$$

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

مثال

$$(3a+2y)(3a-2y) = (3a)^2 - (2y)^2 \\ = 9a^2 - 4y^2$$

$$(2k+3r)(2k-3r) = (2k)^2 - (3r)^2 \\ = 4k^2 - 9r^2$$

$$(3q+5w)(3q-5w) = (3q)^2 - (5w)^2 \\ = 9q^2 - 25w^2$$