

بعض أشكال عملية الضرب

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

مثال

$$(h+5k)^2 = (h)^2 + 2(h)(5k) + (5k)^2 \\ = h^2 + 10hk + 25k^2$$

$$(5y+4s)^2 = (5y)^2 + 2(5y)(4s) + (4s)^2 \\ = 25y^2 + 40sy + 16s^2$$

$$(4K+2A)^2 = (4K)^2 + 2(4K)(2A) + (2A)^2 \\ = 16K^2 + 16AK + 4A^2$$

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

مثال

$$(4d-5e)^2 = (4d)^2 - 2(4d)(5e) + (5e)^2 \\ = 16d^2 - 40de + 25e^2$$

$$(3r-2c)^2 = (3r)^2 - 2(3r)(2c) + (2c)^2 \\ = 9r^2 - 12cr + 4c^2$$

$$(L-2G)^2 = (L)^2 - 2(L)(2G) + (2G)^2 \\ = L^2 - 4GL + 4G^2$$

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

مثال

$$(2S+E)(2S-E) = (2S)^2 - (E)^2 \\ = 4S^2 - E^2$$

$$(g+2b)(g-2b) = (g)^2 - (2b)^2 \\ = g^2 - 4b^2$$

$$(t+2v)(t-2v) = (t)^2 - (2v)^2 \\ = t^2 - 4v^2$$