

بعض أشكال عملية الضرب

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

مثال

$$(u+3m)^2 = (u)^2 + 2(u)(3m) + (3m)^2 \\ = u^2 + 6mu + 9m^2$$

$$(2y+4r)^2 = (2y)^2 + 2(2y)(4r) + (4r)^2 \\ = 4y^2 + 16ry + 16r^2$$

$$(5A+3Z)^2 = (5A)^2 + 2(5A)(3Z) + (3Z)^2 \\ = 25A^2 + 30AZ + 9Z^2$$

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

مثال

$$(S-5W)^2 = (S)^2 - 2(S)(5W) + (5W)^2 \\ = S^2 - 10SW + 25W^2$$

$$(3U-4J)^2 = (3U)^2 - 2(3U)(4J) + (4J)^2 \\ = 9U^2 - 24JU + 16J^2$$

$$(4t-5j)^2 = (4t)^2 - 2(4t)(5j) + (5j)^2 \\ = 16t^2 - 40jt + 25j^2$$

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

مثال

$$(K+5U)(K-5U) = (K)^2 - (5U)^2 \\ = K^2 - 25U^2$$

$$(4u+5g)(4u-5g) = (4u)^2 - (5g)^2 \\ = 16u^2 - 25g^2$$

$$(3f+5k)(3f-5k) = (3f)^2 - (5k)^2 \\ = 9f^2 - 25k^2$$