

## بعض أشكال عملية الضرب

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

مثال

$$(5u+3a)^2 = (5u)^2 + 2(5u)(3a) + (3a)^2 \\ = 25u^2 + 30au + 9a^2$$

$$(5M+I)^2 = (5M)^2 + 2(5M)(I) + (I)^2 \\ = 25M^2 + 10IM + I^2$$

$$(g+2m)^2 = (g)^2 + 2(g)(2m) + (2m)^2 \\ = g^2 + 4gm + 4m^2$$

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

مثال

$$(5g-q)^2 = (5g)^2 - 2(5g)(q) + (q)^2 \\ = 25g^2 - 10gq + q^2$$

$$(4L-3B)^2 = (4L)^2 - 2(4L)(3B) + (3B)^2 \\ = 16L^2 - 24BL + 9B^2$$

$$(4j-3s)^2 = (4j)^2 - 2(4j)(3s) + (3s)^2 \\ = 16j^2 - 24js + 9s^2$$

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

مثال

$$(4c+5b)(4c-5b) = (4c)^2 - (5b)^2 \\ = 16c^2 - 25b^2$$

$$(C+5R)(C-5R) = (C)^2 - (5R)^2 \\ = C^2 - 25R^2$$

$$(2T+5G)(2T-5G) = (2T)^2 - (5G)^2 \\ = 4T^2 - 25G^2$$