

بعض أشكال عملية الضرب

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

مثال

$$(5I + 3M)^2 = (5I)^2 + 2(5I)(3M) + (3M)^2 \\ = 25I^2 + 30IM + 9M^2$$

$$(2o + f)^2 = (2o)^2 + 2(2o)(f) + (f)^2 \\ = 4o^2 + 4fo + f^2$$

$$(2G + S)^2 = (2G)^2 + 2(2G)(S) + (S)^2 \\ = 4G^2 + 4GS + S^2$$

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

مثال

$$(3A - 4V)^2 = (3A)^2 - 2(3A)(4V) + (4V)^2 \\ = 9A^2 - 24AV + 16V^2$$

$$(3m - 5o)^2 = (3m)^2 - 2(3m)(5o) + (5o)^2 \\ = 9m^2 - 30mo + 25o^2$$

$$(5d - k)^2 = (5d)^2 - 2(5d)(k) + (k)^2 \\ = 25d^2 - 10dk + k^2$$

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

مثال

$$(5R + 3D)(5R - 3D) = (5R)^2 - (3D)^2 \\ = 25R^2 - 9D^2$$

$$(5K + 2M)(5K - 2M) = (5K)^2 - (2M)^2 \\ = 25K^2 - 4M^2$$

$$(3j + x)(3j - x) = (3j)^2 - (x)^2 \\ = 9j^2 - x^2$$