

## بعض أشكال عملية الضرب

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

مثال

$$(4G+T)^2 = (4G)^2 + 2(4G)(T) + (T)^2 \\ = 16G^2 + 8GT + T^2$$

$$(4x+3m)^2 = (4x)^2 + 2(4x)(3m) + (3m)^2 \\ = 16x^2 + 24mx + 9m^2$$

$$(3M+B)^2 = (3M)^2 + 2(3M)(B) + (B)^2 \\ = 9M^2 + 6BM + B^2$$

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

مثال

$$(2D-5C)^2 = (2D)^2 - 2(2D)(5C) + (5C)^2 \\ = 4D^2 - 20CD + 25C^2$$

$$(A-3J)^2 = (A)^2 - 2(A)(3J) + (3J)^2 \\ = A^2 - 6AJ + 9J^2$$

$$(5Y-4N)^2 = (5Y)^2 - 2(5Y)(4N) + (4N)^2 \\ = 25Y^2 - 40NY + 16N^2$$

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

مثال

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

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

$$(4k+3s)(4k-3s) = (4k)^2 - (3s)^2 \\ = 16k^2 - 9s^2$$