

## بعض أشكال عملية الضرب

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

مثال

$$(3k+x)^2 = (3k)^2 + 2(3k)(x) + (x)^2 \\ = 9k^2 + 6kx + x^2$$

$$(3v+k)^2 = (3v)^2 + 2(3v)(k) + (k)^2 \\ = 9v^2 + 6kv + k^2$$

$$(4N+I)^2 = (4N)^2 + 2(4N)(I) + (I)^2 \\ = 16N^2 + 8IN + I^2$$

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

مثال

$$(3X-5A)^2 = (3X)^2 - 2(3X)(5A) + (5A)^2 \\ = 9X^2 - 30AX + 25A^2$$

$$(4e-b)^2 = (4e)^2 - 2(4e)(b) + (b)^2 \\ = 16e^2 - 8be + b^2$$

$$(3A-5B)^2 = (3A)^2 - 2(3A)(5B) + (5B)^2 \\ = 9A^2 - 30AB + 25B^2$$

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

مثال

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

$$(3D+4L)(3D-4L) = (3D)^2 - (4L)^2 \\ = 9D^2 - 16L^2$$

$$(c+2e)(c-2e) = (c)^2 - (2e)^2 \\ = c^2 - 4e^2$$