

## بعض أشكال عملية الضرب

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

مثال

$$(4S + 2V)^2 = (4S)^2 + 2(4S)(2V) + (2V)^2 \\ = 16S^2 + 16SV + 4V^2$$

$$(A + 3N)^2 = (A)^2 + 2(A)(3N) + (3N)^2 \\ = A^2 + 6AN + 9N^2$$

$$(I + 50)^2 = (I)^2 + 2(I)(50) + (50)^2 \\ = I^2 + 10I0 + 250^2$$

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

مثال

$$(4e - 3i)^2 = (4e)^2 - 2(4e)(3i) + (3i)^2 \\ = 16e^2 - 24ei + 9i^2$$

$$(F - 3D)^2 = (F)^2 - 2(F)(3D) + (3D)^2 \\ = F^2 - 6DF + 9D^2$$

$$(2K - F)^2 = (2K)^2 - 2(2K)(F) + (F)^2 \\ = 4K^2 - 4FK + F^2$$

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

مثال

$$(Z + 2T)(Z - 2T) = (Z)^2 - (2T)^2 \\ = Z^2 - 4T^2$$

$$(f + 4d)(f - 4d) = (f)^2 - (4d)^2 \\ = f^2 - 16d^2$$

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