

بعض أشكال عملية الضرب

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

مثال

$$(5a+3j)^2 = (5a)^2 + 2(5a)(3j) + (3j)^2 \\ = 25a^2 + 30aj + 9j^2$$

$$(4M+3Z)^2 = (4M)^2 + 2(4M)(3Z) + (3Z)^2 \\ = 16M^2 + 24MZ + 9Z^2$$

$$(4n+3j)^2 = (4n)^2 + 2(4n)(3j) + (3j)^2 \\ = 16n^2 + 24jn + 9j^2$$

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

مثال

$$(2Z-5E)^2 = (2Z)^2 - 2(2Z)(5E) + (5E)^2 \\ = 4Z^2 - 20EZ + 25E^2$$

$$(4Z-5F)^2 = (4Z)^2 - 2(4Z)(5F) + (5F)^2 \\ = 16Z^2 - 40FZ + 25F^2$$

$$(k-2c)^2 = (k)^2 - 2(k)(2c) + (2c)^2 \\ = k^2 - 4ck + 4c^2$$

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

مثال

$$(3J+T)(3J-T) = (3J)^2 - (T)^2 \\ = 9J^2 - T^2$$

$$(B+4V)(B-4V) = (B)^2 - (4V)^2 \\ = B^2 - 16V^2$$

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