

بعض أشكال عملية الضرب

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

مثال

$$(2o + 3z)^2 = (2o)^2 + 2(2o)(3z) + (3z)^2 \\ = 4o^2 + 12oz + 9z^2$$

$$(3i + 4z)^2 = (3i)^2 + 2(3i)(4z) + (4z)^2 \\ = 9i^2 + 24iz + 16z^2$$

$$(20 + X)^2 = (20)^2 + 2(20)(X) + (X)^2 \\ = 400 + 40X + X^2$$

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

مثال

$$(T - 2B)^2 = (T)^2 - 2(T)(2B) + (2B)^2 \\ = T^2 - 4BT + 4B^2$$

$$(2U - 4Y)^2 = (2U)^2 - 2(2U)(4Y) + (4Y)^2 \\ = 4U^2 - 16UY + 16Y^2$$

$$(v - 3w)^2 = (v)^2 - 2(v)(3w) + (3w)^2 \\ = v^2 - 6vw + 9w^2$$

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

مثال

$$(2D + 5X)(2D - 5X) = (2D)^2 - (5X)^2 \\ = 4D^2 - 25X^2$$

$$(a + 5b)(a - 5b) = (a)^2 - (5b)^2 \\ = a^2 - 25b^2$$

$$(5N + 2F)(5N - 2F) = (5N)^2 - (2F)^2 \\ = 25N^2 - 4F^2$$