

بعض أشكال عملية الضرب

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

مثال

$$(3b+i)^2 = (3b)^2 + 2(3b)(i) + (i)^2 \\ = 9b^2 + 6bi + i^2$$

$$(2v+3f)^2 = (2v)^2 + 2(2v)(3f) + (3f)^2 \\ = 4v^2 + 12fv + 9f^2$$

$$(5Q+2V)^2 = (5Q)^2 + 2(5Q)(2V) + (2V)^2 \\ = 25Q^2 + 20QV + 4V^2$$

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

مثال

$$(4L-V)^2 = (4L)^2 - 2(4L)(V) + (V)^2 \\ = 16L^2 - 8LV + V^2$$

$$(4v-3c)^2 = (4v)^2 - 2(4v)(3c) + (3c)^2 \\ = 16v^2 - 24cv + 9c^2$$

$$(2p-5q)^2 = (2p)^2 - 2(2p)(5q) + (5q)^2 \\ = 4p^2 - 20pq + 25q^2$$

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

مثال

$$(Z+4F)(Z-4F) = (Z)^2 - (4F)^2 \\ = Z^2 - 16F^2$$

$$(e+3k)(e-3k) = (e)^2 - (3k)^2 \\ = e^2 - 9k^2$$

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