

بعض أشكال عملية الضرب

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

مثال

$$(3K+E)^2 = (3K)^2 + 2(3K)(E) + (E)^2 \\ = 9K^2 + 6EK + E^2$$

$$(4F+3A)^2 = (4F)^2 + 2(4F)(3A) + (3A)^2 \\ = 16F^2 + 24AF + 9A^2$$

$$(4i+3j)^2 = (4i)^2 + 2(4i)(3j) + (3j)^2 \\ = 16i^2 + 24ij + 9j^2$$

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

مثال

$$(3C-2T)^2 = (3C)^2 - 2(3C)(2T) + (2T)^2 \\ = 9C^2 - 12CT + 4T^2$$

$$(2F-3Q)^2 = (2F)^2 - 2(2F)(3Q) + (3Q)^2 \\ = 4F^2 - 12FQ + 9Q^2$$

$$(2C-3V)^2 = (2C)^2 - 2(2C)(3V) + (3V)^2 \\ = 4C^2 - 12CV + 9V^2$$

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

مثال

$$(2f+q)(2f-q) = (2f)^2 - (q)^2 \\ = 4f^2 - q^2$$

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

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