

بعض أشكال عملية الضرب

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

مثال

$$(2T+3U)^2 = (2T)^2 + 2(2T)(3U) + (3U)^2 \\ = 4T^2 + 12TU + 9U^2$$

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

$$(M+2Y)^2 = (M)^2 + 2(M)(2Y) + (2Y)^2 \\ = M^2 + 4MY + 4Y^2$$

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

مثال

$$(2r-4e)^2 = (2r)^2 - 2(2r)(4e) + (4e)^2 \\ = 4r^2 - 16er + 16e^2$$

$$(3E-5R)^2 = (3E)^2 - 2(3E)(5R) + (5R)^2 \\ = 9E^2 - 30ER + 25R^2$$

$$(3q-h)^2 = (3q)^2 - 2(3q)(h) + (h)^2 \\ = 9q^2 - 6hq + h^2$$

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

مثال

$$(5Y+3W)(5Y-3W) = (5Y)^2 - (3W)^2 \\ = 25Y^2 - 9W^2$$

$$(5I+2A)(5I-2A) = (5I)^2 - (2A)^2 \\ = 25I^2 - 4A^2$$

$$(4q+y)(4q-y) = (4q)^2 - (y)^2 \\ = 16q^2 - y^2$$