

بعض أشكال عملية الضرب

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

مثال

$$(3q+4m)^2 = (3q)^2 + 2(3q)(4m) + (4m)^2 \\ = 9q^2 + 24mq + 16m^2$$

$$(5Q+4X)^2 = (5Q)^2 + 2(5Q)(4X) + (4X)^2 \\ = 25Q^2 + 40QX + 16X^2$$

$$(5M+2Q)^2 = (5M)^2 + 2(5M)(2Q) + (2Q)^2 \\ = 25M^2 + 20MQ + 4Q^2$$

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

مثال

$$(3e-w)^2 = (3e)^2 - 2(3e)(w) + (w)^2 \\ = 9e^2 - 6ew + w^2$$

$$(2C-5B)^2 = (2C)^2 - 2(2C)(5B) + (5B)^2 \\ = 4C^2 - 20BC + 25B^2$$

$$(4u-3o)^2 = (4u)^2 - 2(4u)(3o) + (3o)^2 \\ = 16u^2 - 24ou + 9o^2$$

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

مثال

$$(3w+2h)(3w-2h) = (3w)^2 - (2h)^2 \\ = 9w^2 - 4h^2$$

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

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