

بعض أشكال عملية الضرب

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

مثال

$$(3t+k)^2 = (3t)^2 + 2(3t)(k) + (k)^2 \\ = 9t^2 + 6kt + k^2$$

$$(4n+2e)^2 = (4n)^2 + 2(4n)(2e) + (2e)^2 \\ = 16n^2 + 16en + 4e^2$$

$$(5t+4p)^2 = (5t)^2 + 2(5t)(4p) + (4p)^2 \\ = 25t^2 + 40pt + 16p^2$$

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

مثال

$$(3T-2R)^2 = (3T)^2 - 2(3T)(2R) + (2R)^2 \\ = 9T^2 - 12RT + 4R^2$$

$$(4q-3g)^2 = (4q)^2 - 2(4q)(3g) + (3g)^2 \\ = 16q^2 - 24gq + 9g^2$$

$$(h-3b)^2 = (h)^2 - 2(h)(3b) + (3b)^2 \\ = h^2 - 6bh + 9b^2$$

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

مثال

$$(z+4x)(z-4x) = (z)^2 - (4x)^2 \\ = z^2 - 16x^2$$

$$(3z+5c)(3z-5c) = (3z)^2 - (5c)^2 \\ = 9z^2 - 25c^2$$

$$(4P+2V)(4P-2V) = (4P)^2 - (2V)^2 \\ = 16P^2 - 4V^2$$