

بعض أشكال عملية الضرب

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

مثال

$$(3Q+P)^2 = (3Q)^2 + 2(3Q)(P) + (P)^2 \\ = 9Q^2 + 6PQ + P^2$$

$$(4G+3O)^2 = (4G)^2 + 2(4G)(3O) + (3O)^2 \\ = 16G^2 + 24GO + 9O^2$$

$$(2m+4t)^2 = (2m)^2 + 2(2m)(4t) + (4t)^2 \\ = 4m^2 + 16mt + 16t^2$$

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

مثال

$$(C-2P)^2 = (C)^2 - 2(C)(2P) + (2P)^2 \\ = C^2 - 4CP + 4P^2$$

$$(4t-2c)^2 = (4t)^2 - 2(4t)(2c) + (2c)^2 \\ = 16t^2 - 16ct + 4c^2$$

$$(5f-r)^2 = (5f)^2 - 2(5f)(r) + (r)^2 \\ = 25f^2 - 10fr + r^2$$

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

مثال

$$(f+4b)(f-4b) = (f)^2 - (4b)^2 \\ = f^2 - 16b^2$$

$$(i+2d)(i-2d) = (i)^2 - (2d)^2 \\ = i^2 - 4d^2$$

$$(4k+2c)(4k-2c) = (4k)^2 - (2c)^2 \\ = 16k^2 - 4c^2$$