

بعض أشكال عملية الضرب

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

مثال

$$(5a+n)^2 = (5a)^2 + 2(5a)(n) + (n)^2 \\ = 25a^2 + 10an + n^2$$

$$(3o+5v)^2 = (3o)^2 + 2(3o)(5v) + (5v)^2 \\ = 9o^2 + 30ov + 25v^2$$

$$(2v+5e)^2 = (2v)^2 + 2(2v)(5e) + (5e)^2 \\ = 4v^2 + 20ev + 25e^2$$

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

مثال

$$(2X-D)^2 = (2X)^2 - 2(2X)(D) + (D)^2 \\ = 4X^2 - 4DX + D^2$$

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

$$(3K-2Q)^2 = (3K)^2 - 2(3K)(2Q) + (2Q)^2 \\ = 9K^2 - 12KQ + 4Q^2$$

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

مثال

$$(2W+5P)(2W-5P) = (2W)^2 - (5P)^2 \\ = 4W^2 - 25P^2$$

$$(Z+3T)(Z-3T) = (Z)^2 - (3T)^2 \\ = Z^2 - 9T^2$$

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