

بعض أشكال عملية الضرب

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

مثال

$$(2S+P)^2 = (2S)^2 + 2(2S)(P) + (P)^2 \\ = 4S^2 + 4PS + P^2$$

$$(I+4M)^2 = (I)^2 + 2(I)(4M) + (4M)^2 \\ = I^2 + 8IM + 16M^2$$

$$(3Q+2G)^2 = (3Q)^2 + 2(3Q)(2G) + (2G)^2 \\ = 9Q^2 + 12GQ + 4G^2$$

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

مثال

$$(4p-3a)^2 = (4p)^2 - 2(4p)(3a) + (3a)^2 \\ = 16p^2 - 24ap + 9a^2$$

$$(3I-2J)^2 = (3I)^2 - 2(3I)(2J) + (2J)^2 \\ = 9I^2 - 12IJ + 4J^2$$

$$(5M-X)^2 = (5M)^2 - 2(5M)(X) + (X)^2 \\ = 25M^2 - 10MX + X^2$$

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

مثال

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

$$(5f+g)(5f-g) = (5f)^2 - (g)^2 \\ = 25f^2 - g^2$$

$$(3U+4I)(3U-4I) = (3U)^2 - (4I)^2 \\ = 9U^2 - 16I^2$$