

بعض أشكال عملية الضرب

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

مثال

$$(4P + 5M)^2 = (4P)^2 + 2(4P)(5M) + (5M)^2 \\ = 16P^2 + 40MP + 25M^2$$

$$(3I + 5V)^2 = (3I)^2 + 2(3I)(5V) + (5V)^2 \\ = 9I^2 + 30IV + 25V^2$$

$$(V + 4J)^2 = (V)^2 + 2(V)(4J) + (4J)^2 \\ = V^2 + 8JV + 16J^2$$

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

مثال

$$(5C - S)^2 = (5C)^2 - 2(5C)(S) + (S)^2 \\ = 25C^2 - 10CS + S^2$$

$$(2o - 5m)^2 = (2o)^2 - 2(2o)(5m) + (5m)^2 \\ = 4o^2 - 20mo + 25m^2$$

$$(2w - 3o)^2 = (2w)^2 - 2(2w)(3o) + (3o)^2 \\ = 4w^2 - 12ow + 9o^2$$

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

مثال

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

$$(3a + n)(3a - n) = (3a)^2 - (n)^2 \\ = 9a^2 - n^2$$

$$(n + 5x)(n - 5x) = (n)^2 - (5x)^2 \\ = n^2 - 25x^2$$