

بعض أشكال عملية الضرب

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

مثال

$$(4o+f)^2 = (4o)^2 + 2(4o)(f) + (f)^2 \\ = 16o^2 + 8fo + f^2$$

$$(4H+Z)^2 = (4H)^2 + 2(4H)(Z) + (Z)^2 \\ = 16H^2 + 8HZ + Z^2$$

$$(3r+n)^2 = (3r)^2 + 2(3r)(n) + (n)^2 \\ = 9r^2 + 6nr + n^2$$

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

مثال

$$(4Z-2A)^2 = (4Z)^2 - 2(4Z)(2A) + (2A)^2 \\ = 16Z^2 - 16AZ + 4A^2$$

$$(5w-4j)^2 = (5w)^2 - 2(5w)(4j) + (4j)^2 \\ = 25w^2 - 40jw + 16j^2$$

$$(5J-4Q)^2 = (5J)^2 - 2(5J)(4Q) + (4Q)^2 \\ = 25J^2 - 40JQ + 16Q^2$$

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

مثال

$$(2T+3S)(2T-3S) = (2T)^2 - (3S)^2 \\ = 4T^2 - 9S^2$$

$$(5Y+4R)(5Y-4R) = (5Y)^2 - (4R)^2 \\ = 25Y^2 - 16R^2$$

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