

بعض أشكال عملية الضرب

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

مثال

$$(4v+3z)^2 = (4v)^2 + 2(4v)(3z) + (3z)^2 \\ = 16v^2 + 24vz + 9z^2$$

$$(2B+M)^2 = (2B)^2 + 2(2B)(M) + (M)^2 \\ = 4B^2 + 4BM + M^2$$

$$(5g+2p)^2 = (5g)^2 + 2(5g)(2p) + (2p)^2 \\ = 25g^2 + 20gp + 4p^2$$

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

مثال

$$(4Z-F)^2 = (4Z)^2 - 2(4Z)(F) + (F)^2 \\ = 16Z^2 - 8FZ + F^2$$

$$(5x-2o)^2 = (5x)^2 - 2(5x)(2o) + (2o)^2 \\ = 25x^2 - 20ox + 4o^2$$

$$(3b-e)^2 = (3b)^2 - 2(3b)(e) + (e)^2 \\ = 9b^2 - 6be + e^2$$

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

مثال

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

$$(3x+o)(3x-o) = (3x)^2 - (o)^2 \\ = 9x^2 - o^2$$

$$(3N+4H)(3N-4H) = (3N)^2 - (4H)^2 \\ = 9N^2 - 16H^2$$