

بعض أشكال عملية الضرب

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

مثال

$$(4w+5z)^2 = (4w)^2 + 2(4w)(5z) + (5z)^2 \\ = 16w^2 + 40wz + 25z^2$$

$$(b+4h)^2 = (b)^2 + 2(b)(4h) + (4h)^2 \\ = b^2 + 8bh + 16h^2$$

$$(5j+m)^2 = (5j)^2 + 2(5j)(m) + (m)^2 \\ = 25j^2 + 10jm + m^2$$

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

مثال

$$(4C-5B)^2 = (4C)^2 - 2(4C)(5B) + (5B)^2 \\ = 16C^2 - 40BC + 25B^2$$

$$(3Z-5I)^2 = (3Z)^2 - 2(3Z)(5I) + (5I)^2 \\ = 9Z^2 - 30IZ + 25I^2$$

$$(2n-y)^2 = (2n)^2 - 2(2n)(y) + (y)^2 \\ = 4n^2 - 4ny + y^2$$

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

مثال

$$(5b+k)(5b-k) = (5b)^2 - (k)^2 \\ = 25b^2 - k^2$$

$$(M+3P)(M-3P) = (M)^2 - (3P)^2 \\ = M^2 - 9P^2$$

$$(2y+u)(2y-u) = (2y)^2 - (u)^2 \\ = 4y^2 - u^2$$