

بعض أشكال عملية الضرب

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

مثال

$$(5Y + 2P)^2 = (5Y)^2 + 2(5Y)(2P) + (2P)^2 \\ = 25Y^2 + 20PY + 4P^2$$

$$(3u + 2o)^2 = (3u)^2 + 2(3u)(2o) + (2o)^2 \\ = 9u^2 + 12ou + 4o^2$$

$$(W + 5V)^2 = (W)^2 + 2(W)(5V) + (5V)^2 \\ = W^2 + 10VW + 25V^2$$

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

مثال

$$(5a - 3b)^2 = (5a)^2 - 2(5a)(3b) + (3b)^2 \\ = 25a^2 - 30ab + 9b^2$$

$$(5S - 4E)^2 = (5S)^2 - 2(5S)(4E) + (4E)^2 \\ = 25S^2 - 40ES + 16E^2$$

$$(3Z - 4X)^2 = (3Z)^2 - 2(3Z)(4X) + (4X)^2 \\ = 9Z^2 - 24XZ + 16X^2$$

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

مثال

$$(B + 2H)(B - 2H) = (B)^2 - (2H)^2 \\ = B^2 - 4H^2$$

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

$$(5F + 4L)(5F - 4L) = (5F)^2 - (4L)^2 \\ = 25F^2 - 16L^2$$