

بعض أشكال عملية الضرب

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

مثال

$$(2P+X)^2 = (2P)^2 + 2(2P)(X) + (X)^2 \\ = 4P^2 + 4PX + X^2$$

$$(3B+4X)^2 = (3B)^2 + 2(3B)(4X) + (4X)^2 \\ = 9B^2 + 24BX + 16X^2$$

$$(4M+X)^2 = (4M)^2 + 2(4M)(X) + (X)^2 \\ = 16M^2 + 8MX + X^2$$

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

مثال

$$(2h-4v)^2 = (2h)^2 - 2(2h)(4v) + (4v)^2 \\ = 4h^2 - 16hv + 16v^2$$

$$(V-2C)^2 = (V)^2 - 2(V)(2C) + (2C)^2 \\ = V^2 - 4CV + 4C^2$$

$$(5X-2G)^2 = (5X)^2 - 2(5X)(2G) + (2G)^2 \\ = 25X^2 - 20GX + 4G^2$$

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

مثال

$$(2L+4R)(2L-4R) = (2L)^2 - (4R)^2 \\ = 4L^2 - 16R^2$$

$$(J+3G)(J-3G) = (J)^2 - (3G)^2 \\ = J^2 - 9G^2$$

$$(2j+5h)(2j-5h) = (2j)^2 - (5h)^2 \\ = 4j^2 - 25h^2$$