

بعض أشكال عملية الضرب

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

مثال

$$(3h+r)^2 = (3h)^2 + 2(3h)(r) + (r)^2 \\ = 9h^2 + 6hr + r^2$$

$$(2x+4b)^2 = (2x)^2 + 2(2x)(4b) + (4b)^2 \\ = 4x^2 + 16bx + 16b^2$$

$$(2n+5d)^2 = (2n)^2 + 2(2n)(5d) + (5d)^2 \\ = 4n^2 + 20dn + 25d^2$$

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

مثال

$$(4R-3P)^2 = (4R)^2 - 2(4R)(3P) + (3P)^2 \\ = 16R^2 - 24PR + 9P^2$$

$$(D-2R)^2 = (D)^2 - 2(D)(2R) + (2R)^2 \\ = D^2 - 4DR + 4R^2$$

$$(d-2w)^2 = (d)^2 - 2(d)(2w) + (2w)^2 \\ = d^2 - 4dw + 4w^2$$

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

مثال

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

$$(g+3e)(g-3e) = (g)^2 - (3e)^2 \\ = g^2 - 9e^2$$

$$(3E+5X)(3E-5X) = (3E)^2 - (5X)^2 \\ = 9E^2 - 25X^2$$