

بعض أشكال عملية الضرب

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

مثال

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

$$(4o+p)^2 = (4o)^2 + 2(4o)(p) + (p)^2 \\ = 16o^2 + 8op + p^2$$

$$(2p+3h)^2 = (2p)^2 + 2(2p)(3h) + (3h)^2 \\ = 4p^2 + 12hp + 9h^2$$

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

مثال

$$(3r-4i)^2 = (3r)^2 - 2(3r)(4i) + (4i)^2 \\ = 9r^2 - 24ir + 16i^2$$

$$(f-2o)^2 = (f)^2 - 2(f)(2o) + (2o)^2 \\ = f^2 - 4fo + 4o^2$$

$$(3D-H)^2 = (3D)^2 - 2(3D)(H) + (H)^2 \\ = 9D^2 - 6DH + H^2$$

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

مثال

$$(5j+4b)(5j-4b) = (5j)^2 - (4b)^2 \\ = 25j^2 - 16b^2$$

$$(4R+3K)(4R-3K) = (4R)^2 - (3K)^2 \\ = 16R^2 - 9K^2$$

$$(2Z+3Y)(2Z-3Y) = (2Z)^2 - (3Y)^2 \\ = 4Z^2 - 9Y^2$$