

بعض أشكال عملية الضرب

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

مثال

$$(4k+2o)^2 = (4k)^2 + 2(4k)(2o) + (2o)^2 \\ = 16k^2 + 16ko + 4o^2$$

$$(y+3p)^2 = (y)^2 + 2(y)(3p) + (3p)^2 \\ = y^2 + 6py + 9p^2$$

$$(2F+4L)^2 = (2F)^2 + 2(2F)(4L) + (4L)^2 \\ = 4F^2 + 16FL + 16L^2$$

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

مثال

$$(4m-5k)^2 = (4m)^2 - 2(4m)(5k) + (5k)^2 \\ = 16m^2 - 40km + 25k^2$$

$$(R-4U)^2 = (R)^2 - 2(R)(4U) + (4U)^2 \\ = R^2 - 8RU + 16U^2$$

$$(y-3w)^2 = (y)^2 - 2(y)(3w) + (3w)^2 \\ = y^2 - 6wy + 9w^2$$

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

مثال

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

$$(3Y+5R)(3Y-5R) = (3Y)^2 - (5R)^2 \\ = 9Y^2 - 25R^2$$

$$(3D+2P)(3D-2P) = (3D)^2 - (2P)^2 \\ = 9D^2 - 4P^2$$