

## بعض أشكال عملية الضرب

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

مثال

$$(2t+p)^2 = (2t)^2 + 2(2t)(p) + (p)^2 \\ = 4t^2 + 4pt + p^2$$

$$(2L+Y)^2 = (2L)^2 + 2(2L)(Y) + (Y)^2 \\ = 4L^2 + 4LY + Y^2$$

$$(3D+4W)^2 = (3D)^2 + 2(3D)(4W) + (4W)^2 \\ = 9D^2 + 24DW + 16W^2$$

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

مثال

$$(5G-4F)^2 = (5G)^2 - 2(5G)(4F) + (4F)^2 \\ = 25G^2 - 40FG + 16F^2$$

$$(5y-3n)^2 = (5y)^2 - 2(5y)(3n) + (3n)^2 \\ = 25y^2 - 30ny + 9n^2$$

$$(r-3y)^2 = (r)^2 - 2(r)(3y) + (3y)^2 \\ = r^2 - 6ry + 9y^2$$

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

مثال

$$(q+4a)(q-4a) = (q)^2 - (4a)^2 \\ = q^2 - 16a^2$$

$$(3f+5h)(3f-5h) = (3f)^2 - (5h)^2 \\ = 9f^2 - 25h^2$$

$$(2g+e)(2g-e) = (2g)^2 - (e)^2 \\ = 4g^2 - e^2$$