

## بعض أشكال عملية الضرب

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

مثال

$$(4e+2p)^2 = (4e)^2 + 2(4e)(2p) + (2p)^2 \\ = 16e^2 + 16ep + 4p^2$$

$$(4E+G)^2 = (4E)^2 + 2(4E)(G) + (G)^2 \\ = 16E^2 + 8EG + G^2$$

$$(5g+w)^2 = (5g)^2 + 2(5g)(w) + (w)^2 \\ = 25g^2 + 10gw + w^2$$

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

مثال

$$(3u-2n)^2 = (3u)^2 - 2(3u)(2n) + (2n)^2 \\ = 9u^2 - 12nu + 4n^2$$

$$(2e-4u)^2 = (2e)^2 - 2(2e)(4u) + (4u)^2 \\ = 4e^2 - 16eu + 16u^2$$

$$(V-5I)^2 = (V)^2 - 2(V)(5I) + (5I)^2 \\ = V^2 - 10IV + 25I^2$$

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

مثال

$$(4W+A)(4W-A) = (4W)^2 - (A)^2 \\ = 16W^2 - A^2$$

$$(5y+n)(5y-n) = (5y)^2 - (n)^2 \\ = 25y^2 - n^2$$

$$(5w+2k)(5w-2k) = (5w)^2 - (2k)^2 \\ = 25w^2 - 4k^2$$