

## بعض أشكال عملية الضرب

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

مثال

$$(2k+3m)^2 = (2k)^2 + 2(2k)(3m) + (3m)^2 \\ = 4k^2 + 12km + 9m^2$$

$$(2w+5r)^2 = (2w)^2 + 2(2w)(5r) + (5r)^2 \\ = 4w^2 + 20rw + 25r^2$$

$$(d+4c)^2 = (d)^2 + 2(d)(4c) + (4c)^2 \\ = d^2 + 8cd + 16c^2$$

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

مثال

$$(3W-4E)^2 = (3W)^2 - 2(3W)(4E) + (4E)^2 \\ = 9W^2 - 24EW + 16E^2$$

$$(B-4P)^2 = (B)^2 - 2(B)(4P) + (4P)^2 \\ = B^2 - 8BP + 16P^2$$

$$(4v-3j)^2 = (4v)^2 - 2(4v)(3j) + (3j)^2 \\ = 16v^2 - 24jv + 9j^2$$

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

مثال

$$(5w+3g)(5w-3g) = (5w)^2 - (3g)^2 \\ = 25w^2 - 9g^2$$

$$(D+4Q)(D-4Q) = (D)^2 - (4Q)^2 \\ = D^2 - 16Q^2$$

$$(3W+5S)(3W-5S) = (3W)^2 - (5S)^2 \\ = 9W^2 - 25S^2$$