

## بعض أشكال عملية الضرب

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

مثال

$$(2g+x)^2 = (2g)^2 + 2(2g)(x) + (x)^2 \\ = 4g^2 + 4gx + x^2$$

$$(4D+5B)^2 = (4D)^2 + 2(4D)(5B) + (5B)^2 \\ = 16D^2 + 40BD + 25B^2$$

$$(2j+4a)^2 = (2j)^2 + 2(2j)(4a) + (4a)^2 \\ = 4j^2 + 16aj + 16a^2$$

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

مثال

$$(4T-H)^2 = (4T)^2 - 2(4T)(H) + (H)^2 \\ = 16T^2 - 8HT + H^2$$

$$(3w-2n)^2 = (3w)^2 - 2(3w)(2n) + (2n)^2 \\ = 9w^2 - 12nw + 4n^2$$

$$(2w-4f)^2 = (2w)^2 - 2(2w)(4f) + (4f)^2 \\ = 4w^2 - 16fw + 16f^2$$

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

مثال

$$(3b+m)(3b-m) = (3b)^2 - (m)^2 \\ = 9b^2 - m^2$$

$$(2i+4t)(2i-4t) = (2i)^2 - (4t)^2 \\ = 4i^2 - 16t^2$$

$$(4a+3k)(4a-3k) = (4a)^2 - (3k)^2 \\ = 16a^2 - 9k^2$$