

## بعض أشكال عملية الضرب

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

مثال

$$(2v+3c)^2 = (2v)^2 + 2(2v)(3c) + (3c)^2 \\ = 4v^2 + 12cv + 9c^2$$

$$(5r+2a)^2 = (5r)^2 + 2(5r)(2a) + (2a)^2 \\ = 25r^2 + 20ar + 4a^2$$

$$(n+4b)^2 = (n)^2 + 2(n)(4b) + (4b)^2 \\ = n^2 + 8bn + 16b^2$$

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

مثال

$$(g-2b)^2 = (g)^2 - 2(g)(2b) + (2b)^2 \\ = g^2 - 4bg + 4b^2$$

$$(a-4h)^2 = (a)^2 - 2(a)(4h) + (4h)^2 \\ = a^2 - 8ah + 16h^2$$

$$(5U-3K)^2 = (5U)^2 - 2(5U)(3K) + (3K)^2 \\ = 25U^2 - 30KU + 9K^2$$

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

مثال

$$(4h+5y)(4h-5y) = (4h)^2 - (5y)^2 \\ = 16h^2 - 25y^2$$

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

$$(3q+2c)(3q-2c) = (3q)^2 - (2c)^2 \\ = 9q^2 - 4c^2$$