

## بعض أشكال عملية الضرب

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

مثال

$$(Z+3A)^2 = (Z)^2 + 2(Z)(3A) + (3A)^2 \\ = Z^2 + 6AZ + 9A^2$$

$$(5g+4b)^2 = (5g)^2 + 2(5g)(4b) + (4b)^2 \\ = 25g^2 + 40bg + 16b^2$$

$$(h+4z)^2 = (h)^2 + 2(h)(4z) + (4z)^2 \\ = h^2 + 8hz + 16z^2$$

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

مثال

$$(4f-3c)^2 = (4f)^2 - 2(4f)(3c) + (3c)^2 \\ = 16f^2 - 24cf + 9c^2$$

$$(5X-S)^2 = (5X)^2 - 2(5X)(S) + (S)^2 \\ = 25X^2 - 10SX + S^2$$

$$(3N-4Z)^2 = (3N)^2 - 2(3N)(4Z) + (4Z)^2 \\ = 9N^2 - 24NZ + 16Z^2$$

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

مثال

$$(2d+r)(2d-r) = (2d)^2 - (r)^2 \\ = 4d^2 - r^2$$

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

$$(2S+C)(2S-C) = (2S)^2 - (C)^2 \\ = 4S^2 - C^2$$