

## بعض أشكال عملية الضرب

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

مثال

$$(2c + 3q)^2 = (2c)^2 + 2(2c)(3q) + (3q)^2 \\ = 4c^2 + 12cq + 9q^2$$

$$(4i + 3v)^2 = (4i)^2 + 2(4i)(3v) + (3v)^2 \\ = 16i^2 + 24iv + 9v^2$$

$$(4Y + 5P)^2 = (4Y)^2 + 2(4Y)(5P) + (5P)^2 \\ = 16Y^2 + 40PY + 25P^2$$

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

مثال

$$(5g - 3n)^2 = (5g)^2 - 2(5g)(3n) + (3n)^2 \\ = 25g^2 - 30gn + 9n^2$$

$$(M - 3C)^2 = (M)^2 - 2(M)(3C) + (3C)^2 \\ = M^2 - 6CM + 9C^2$$

$$(h - 5z)^2 = (h)^2 - 2(h)(5z) + (5z)^2 \\ = h^2 - 10hz + 25z^2$$

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

مثال

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

$$(3K + 5P)(3K - 5P) = (3K)^2 - (5P)^2 \\ = 9K^2 - 25P^2$$

$$(Y + 2T)(Y - 2T) = (Y)^2 - (2T)^2 \\ = Y^2 - 4T^2$$