

بعض أشكال عملية الضرب

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

مثال

$$(2q+4o)^2 = (2q)^2 + 2(2q)(4o) + (4o)^2 \\ = 4q^2 + 16oq + 16o^2$$

$$(E+4X)^2 = (E)^2 + 2(E)(4X) + (4X)^2 \\ = E^2 + 8EX + 16X^2$$

$$(2U+5R)^2 = (2U)^2 + 2(2U)(5R) + (5R)^2 \\ = 4U^2 + 20RU + 25R^2$$

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

مثال

$$(e-3q)^2 = (e)^2 - 2(e)(3q) + (3q)^2 \\ = e^2 - 6eq + 9q^2$$

$$(3n-4d)^2 = (3n)^2 - 2(3n)(4d) + (4d)^2 \\ = 9n^2 - 24dn + 16d^2$$

$$(4e-5a)^2 = (4e)^2 - 2(4e)(5a) + (5a)^2 \\ = 16e^2 - 40ae + 25a^2$$

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

مثال

$$(4g+3r)(4g-3r) = (4g)^2 - (3r)^2 \\ = 16g^2 - 9r^2$$

$$(4q+o)(4q-o) = (4q)^2 - (o)^2 \\ = 16q^2 - o^2$$

$$(5T+3M)(5T-3M) = (5T)^2 - (3M)^2 \\ = 25T^2 - 9M^2$$