

بعض أشكال عملية الضرب

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

مثال

$$(3I + Q)^2 = (3I)^2 + 2(3I)(Q) + (Q)^2 \\ = 9I^2 + 6IQ + Q^2$$

$$(2j + 5g)^2 = (2j)^2 + 2(2j)(5g) + (5g)^2 \\ = 4j^2 + 20gj + 25g^2$$

$$(3M + F)^2 = (3M)^2 + 2(3M)(F) + (F)^2 \\ = 9M^2 + 6FM + F^2$$

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

مثال

$$(4M - 3F)^2 = (4M)^2 - 2(4M)(3F) + (3F)^2 \\ = 16M^2 - 24FM + 9F^2$$

$$(g - 2z)^2 = (g)^2 - 2(g)(2z) + (2z)^2 \\ = g^2 - 4gz + 4z^2$$

$$(4j - 5y)^2 = (4j)^2 - 2(4j)(5y) + (5y)^2 \\ = 16j^2 - 40jy + 25y^2$$

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

مثال

$$(T + 3Z)(T - 3Z) = (T)^2 - (3Z)^2 \\ = T^2 - 9Z^2$$

$$(2p + 4v)(2p - 4v) = (2p)^2 - (4v)^2 \\ = 4p^2 - 16v^2$$

$$(4Y + 5N)(4Y - 5N) = (4Y)^2 - (5N)^2 \\ = 16Y^2 - 25N^2$$