

بعض أشكال عملية الضرب

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

مثال

$$(3F + 5G)^2 = (3F)^2 + 2(3F)(5G) + (5G)^2 \\ = 9F^2 + 30FG + 25G^2$$

$$(4j + 2o)^2 = (4j)^2 + 2(4j)(2o) + (2o)^2 \\ = 16j^2 + 16jo + 4o^2$$

$$(4N + 2D)^2 = (4N)^2 + 2(4N)(2D) + (2D)^2 \\ = 16N^2 + 16DN + 4D^2$$

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

مثال

$$(n - 2f)^2 = (n)^2 - 2(n)(2f) + (2f)^2 \\ = n^2 - 4fn + 4f^2$$

$$(3m - 4u)^2 = (3m)^2 - 2(3m)(4u) + (4u)^2 \\ = 9m^2 - 24mu + 16u^2$$

$$(4T - 5Z)^2 = (4T)^2 - 2(4T)(5Z) + (5Z)^2 \\ = 16T^2 - 40TZ + 25Z^2$$

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

مثال

$$(5i + m)(5i - m) = (5i)^2 - (m)^2 \\ = 25i^2 - m^2$$

$$(p + 3z)(p - 3z) = (p)^2 - (3z)^2 \\ = p^2 - 9z^2$$

$$(5r + 4u)(5r - 4u) = (5r)^2 - (4u)^2 \\ = 25r^2 - 16u^2$$