

بعض أشكال عملية الضرب

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

مثال

$$(4Q+R)^2 = (4Q)^2 + 2(4Q)(R) + (R)^2 \\ = 16Q^2 + 8QR + R^2$$

$$(5r+2n)^2 = (5r)^2 + 2(5r)(2n) + (2n)^2 \\ = 25r^2 + 20nr + 4n^2$$

$$(I+3F)^2 = (I)^2 + 2(I)(3F) + (3F)^2 \\ = I^2 + 6FI + 9F^2$$

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

مثال

$$(4j-5x)^2 = (4j)^2 - 2(4j)(5x) + (5x)^2 \\ = 16j^2 - 40jx + 25x^2$$

$$(2A-5Q)^2 = (2A)^2 - 2(2A)(5Q) + (5Q)^2 \\ = 4A^2 - 20AQ + 25Q^2$$

$$(4J-3C)^2 = (4J)^2 - 2(4J)(3C) + (3C)^2 \\ = 16J^2 - 24CJ + 9C^2$$

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

مثال

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

$$(Q+2B)(Q-2B) = (Q)^2 - (2B)^2 \\ = Q^2 - 4B^2$$

$$(2u+3d)(2u-3d) = (2u)^2 - (3d)^2 \\ = 4u^2 - 9d^2$$