

بعض أشكال عملية الضرب

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

مثال

$$(3q+5c)^2 = (3q)^2 + 2(3q)(5c) + (5c)^2 \\ = 9q^2 + 30cq + 25c^2$$

$$(2B+E)^2 = (2B)^2 + 2(2B)(E) + (E)^2 \\ = 4B^2 + 4BE + E^2$$

$$(3K+E)^2 = (3K)^2 + 2(3K)(E) + (E)^2 \\ = 9K^2 + 6EK + E^2$$

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

مثال

$$(2J-A)^2 = (2J)^2 - 2(2J)(A) + (A)^2 \\ = 4J^2 - 4AJ + A^2$$

$$(2R-4K)^2 = (2R)^2 - 2(2R)(4K) + (4K)^2 \\ = 4R^2 - 16KR + 16K^2$$

$$(5z-w)^2 = (5z)^2 - 2(5z)(w) + (w)^2 \\ = 25z^2 - 10wz + w^2$$

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

مثال

$$(2B+3G)(2B-3G) = (2B)^2 - (3G)^2 \\ = 4B^2 - 9G^2$$

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

$$(2f+4j)(2f-4j) = (2f)^2 - (4j)^2 \\ = 4f^2 - 16j^2$$