

بعض أشكال عملية الضرب

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

مثال

$$(4W+E)^2 = (4W)^2 + 2(4W)(E) + (E)^2 \\ = 16W^2 + 8EW + E^2$$

$$(0+3I)^2 = (0)^2 + 2(0)(3I) + (3I)^2 \\ = 0^2 + 6I0 + 9I^2$$

$$(q+3p)^2 = (q)^2 + 2(q)(3p) + (3p)^2 \\ = q^2 + 6pq + 9p^2$$

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

مثال

$$(4T-5C)^2 = (4T)^2 - 2(4T)(5C) + (5C)^2 \\ = 16T^2 - 40CT + 25C^2$$

$$(2M-4Z)^2 = (2M)^2 - 2(2M)(4Z) + (4Z)^2 \\ = 4M^2 - 16MZ + 16Z^2$$

$$(3s-5i)^2 = (3s)^2 - 2(3s)(5i) + (5i)^2 \\ = 9s^2 - 30is + 25i^2$$

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

مثال

$$(2a+z)(2a-z) = (2a)^2 - (z)^2 \\ = 4a^2 - z^2$$

$$(2g+y)(2g-y) = (2g)^2 - (y)^2 \\ = 4g^2 - y^2$$

$$(3a+5p)(3a-5p) = (3a)^2 - (5p)^2 \\ = 9a^2 - 25p^2$$