

بعض أشكال عملية الضرب

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

مثال

$$(5b+4j)^2 = (5b)^2 + 2(5b)(4j) + (4j)^2 \\ = 25b^2 + 40bj + 16j^2$$

$$(5t+3i)^2 = (5t)^2 + 2(5t)(3i) + (3i)^2 \\ = 25t^2 + 30it + 9i^2$$

$$(2L+4R)^2 = (2L)^2 + 2(2L)(4R) + (4R)^2 \\ = 4L^2 + 16LR + 16R^2$$

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

مثال

$$(5E-3L)^2 = (5E)^2 - 2(5E)(3L) + (3L)^2 \\ = 25E^2 - 30EL + 9L^2$$

$$(5D-4M)^2 = (5D)^2 - 2(5D)(4M) + (4M)^2 \\ = 25D^2 - 40DM + 16M^2$$

$$(5m-4p)^2 = (5m)^2 - 2(5m)(4p) + (4p)^2 \\ = 25m^2 - 40mp + 16p^2$$

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

مثال

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

$$(3b+t)(3b-t) = (3b)^2 - (t)^2 \\ = 9b^2 - t^2$$

$$(2k+5b)(2k-5b) = (2k)^2 - (5b)^2 \\ = 4k^2 - 25b^2$$