

بعض أشكال عملية الضرب

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

مثال

$$(k+4q)^2 = (k)^2 + 2(k)(4q) + (4q)^2 \\ = k^2 + 8kq + 16q^2$$

$$(5D+2W)^2 = (5D)^2 + 2(5D)(2W) + (2W)^2 \\ = 25D^2 + 20DW + 4W^2$$

$$(2i+z)^2 = (2i)^2 + 2(2i)(z) + (z)^2 \\ = 4i^2 + 4iz + z^2$$

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

مثال

$$(3m-5u)^2 = (3m)^2 - 2(3m)(5u) + (5u)^2 \\ = 9m^2 - 30mu + 25u^2$$

$$(4d-h)^2 = (4d)^2 - 2(4d)(h) + (h)^2 \\ = 16d^2 - 8dh + h^2$$

$$(5i-3j)^2 = (5i)^2 - 2(5i)(3j) + (3j)^2 \\ = 25i^2 - 30ij + 9j^2$$

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

مثال

$$(Y+3F)(Y-3F) = (Y)^2 - (3F)^2 \\ = Y^2 - 9F^2$$

$$(5r+3b)(5r-3b) = (5r)^2 - (3b)^2 \\ = 25r^2 - 9b^2$$

$$(5h+4m)(5h-4m) = (5h)^2 - (4m)^2 \\ = 25h^2 - 16m^2$$