

بعض أشكال عملية الضرب

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

مثال

$$(3r+4t)^2 = (3r)^2 + 2(3r)(4t) + (4t)^2 \\ = 9r^2 + 24rt + 16t^2$$

$$(5F+3Y)^2 = (5F)^2 + 2(5F)(3Y) + (3Y)^2 \\ = 25F^2 + 30FY + 9Y^2$$

$$(5b+m)^2 = (5b)^2 + 2(5b)(m) + (m)^2 \\ = 25b^2 + 10bm + m^2$$

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

مثال

$$(2w-5a)^2 = (2w)^2 - 2(2w)(5a) + (5a)^2 \\ = 4w^2 - 20aw + 25a^2$$

$$(2Z-S)^2 = (2Z)^2 - 2(2Z)(S) + (S)^2 \\ = 4Z^2 - 4SZ + S^2$$

$$(3L-2E)^2 = (3L)^2 - 2(3L)(2E) + (2E)^2 \\ = 9L^2 - 12EL + 4E^2$$

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

مثال

$$(5B+4P)(5B-4P) = (5B)^2 - (4P)^2 \\ = 25B^2 - 16P^2$$

$$(2y+5d)(2y-5d) = (2y)^2 - (5d)^2 \\ = 4y^2 - 25d^2$$

$$(3y+5u)(3y-5u) = (3y)^2 - (5u)^2 \\ = 9y^2 - 25u^2$$