

بعض أشكال عملية الضرب

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

مثال

$$(4m+3p)^2 = (4m)^2 + 2(4m)(3p) + (3p)^2 \\ = 16m^2 + 24mp + 9p^2$$

$$(5Q+30)^2 = (5Q)^2 + 2(5Q)(30) + (30)^2 \\ = 25Q^2 + 300Q + 900$$

$$(4A+Y)^2 = (4A)^2 + 2(4A)(Y) + (Y)^2 \\ = 16A^2 + 8AY + Y^2$$

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

مثال

$$(2E-I)^2 = (2E)^2 - 2(2E)(I) + (I)^2 \\ = 4E^2 - 4EI + I^2$$

$$(H-4Z)^2 = (H)^2 - 2(H)(4Z) + (4Z)^2 \\ = H^2 - 8HZ + 16Z^2$$

$$(4Z-5F)^2 = (4Z)^2 - 2(4Z)(5F) + (5F)^2 \\ = 16Z^2 - 40FZ + 25F^2$$

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

مثال

$$(4n+3b)(4n-3b) = (4n)^2 - (3b)^2 \\ = 16n^2 - 9b^2$$

$$(4s+5r)(4s-5r) = (4s)^2 - (5r)^2 \\ = 16s^2 - 25r^2$$

$$(3J+X)(3J-X) = (3J)^2 - (X)^2 \\ = 9J^2 - X^2$$