

بعض أشكال عملية الضرب

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

مثال

$$(5v+4h)^2 = (5v)^2 + 2(5v)(4h) + (4h)^2 \\ = 25v^2 + 40hv + 16h^2$$

$$(5X+M)^2 = (5X)^2 + 2(5X)(M) + (M)^2 \\ = 25X^2 + 10MX + M^2$$

$$(4p+2o)^2 = (4p)^2 + 2(4p)(2o) + (2o)^2 \\ = 16p^2 + 16op + 4o^2$$

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

مثال

$$(3k-2e)^2 = (3k)^2 - 2(3k)(2e) + (2e)^2 \\ = 9k^2 - 12ek + 4e^2$$

$$(4L-Z)^2 = (4L)^2 - 2(4L)(Z) + (Z)^2 \\ = 16L^2 - 8LZ + Z^2$$

$$(5M-2J)^2 = (5M)^2 - 2(5M)(2J) + (2J)^2 \\ = 25M^2 - 20JM + 4J^2$$

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

مثال

$$(m+2r)(m-2r) = (m)^2 - (2r)^2 \\ = m^2 - 4r^2$$

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

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