

بعض أشكال عملية الضرب

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

مثال

$$(H+40)^2 = (H)^2 + 2(H)(40) + (40)^2 \\ = H^2 + 8H0 + 160^2$$

$$(4e+3a)^2 = (4e)^2 + 2(4e)(3a) + (3a)^2 \\ = 16e^2 + 24ae + 9a^2$$

$$(3N+H)^2 = (3N)^2 + 2(3N)(H) + (H)^2 \\ = 9N^2 + 6HN + H^2$$

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

مثال

$$(2z-3h)^2 = (2z)^2 - 2(2z)(3h) + (3h)^2 \\ = 4z^2 - 12hz + 9h^2$$

$$(D-2M)^2 = (D)^2 - 2(D)(2M) + (2M)^2 \\ = D^2 - 4DM + 4M^2$$

$$(5n-z)^2 = (5n)^2 - 2(5n)(z) + (z)^2 \\ = 25n^2 - 10nz + z^2$$

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

مثال

$$(4I+3C)(4I-3C) = (4I)^2 - (3C)^2 \\ = 16I^2 - 9C^2$$

$$(4Q+G)(4Q-G) = (4Q)^2 - (G)^2 \\ = 16Q^2 - G^2$$

$$(4V+2C)(4V-2C) = (4V)^2 - (2C)^2 \\ = 16V^2 - 4C^2$$