

بعض أشكال عملية الضرب

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

مثال

$$(2G + 4T)^2 = (2G)^2 + 2(2G)(4T) + (4T)^2 \\ = 4G^2 + 16GT + 16T^2$$

$$(2i + 5f)^2 = (2i)^2 + 2(2i)(5f) + (5f)^2 \\ = 4i^2 + 20fi + 25f^2$$

$$(5K + 40)^2 = (5K)^2 + 2(5K)(40) + (40)^2 \\ = 25K^2 + 40K0 + 160^2$$

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

مثال

$$(2X - 4W)^2 = (2X)^2 - 2(2X)(4W) + (4W)^2 \\ = 4X^2 - 16WX + 16W^2$$

$$(3G - C)^2 = (3G)^2 - 2(3G)(C) + (C)^2 \\ = 9G^2 - 6CG + C^2$$

$$(2S - 3A)^2 = (2S)^2 - 2(2S)(3A) + (3A)^2 \\ = 4S^2 - 12AS + 9A^2$$

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

مثال

$$(5V + 2H)(5V - 2H) = (5V)^2 - (2H)^2 \\ = 25V^2 - 4H^2$$

$$(2T + 5K)(2T - 5K) = (2T)^2 - (5K)^2 \\ = 4T^2 - 25K^2$$

$$(4Q + 5Y)(4Q - 5Y) = (4Q)^2 - (5Y)^2 \\ = 16Q^2 - 25Y^2$$