

بعض أشكال عملية الضرب

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

مثال

$$(2c+4h)^2 = (2c)^2 + 2(2c)(4h) + (4h)^2 \\ = 4c^2 + 16ch + 16h^2$$

$$(4P+2Q)^2 = (4P)^2 + 2(4P)(2Q) + (2Q)^2 \\ = 16P^2 + 16PQ + 4Q^2$$

$$(5K+3P)^2 = (5K)^2 + 2(5K)(3P) + (3P)^2 \\ = 25K^2 + 30KP + 9P^2$$

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

مثال

$$(3F-5R)^2 = (3F)^2 - 2(3F)(5R) + (5R)^2 \\ = 9F^2 - 30FR + 25R^2$$

$$(5Y-V)^2 = (5Y)^2 - 2(5Y)(V) + (V)^2 \\ = 25Y^2 - 10VY + V^2$$

$$(G-4D)^2 = (G)^2 - 2(G)(4D) + (4D)^2 \\ = G^2 - 8DG + 16D^2$$

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

مثال

$$(5f+2e)(5f-2e) = (5f)^2 - (2e)^2 \\ = 25f^2 - 4e^2$$

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

$$(2x+3d)(2x-3d) = (2x)^2 - (3d)^2 \\ = 4x^2 - 9d^2$$