

بعض أشكال عملية الضرب

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

مثال

$$(5B + 2M)^2 = (5B)^2 + 2(5B)(2M) + (2M)^2 \\ = 25B^2 + 20BM + 4M^2$$

$$(K + 2J)^2 = (K)^2 + 2(K)(2J) + (2J)^2 \\ = K^2 + 4JK + 4J^2$$

$$(G + 3O)^2 = (G)^2 + 2(G)(3O) + (3O)^2 \\ = G^2 + 6GO + 9O^2$$

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

مثال

$$(3F - 2S)^2 = (3F)^2 - 2(3F)(2S) + (2S)^2 \\ = 9F^2 - 12FS + 4S^2$$

$$(4Q - 3P)^2 = (4Q)^2 - 2(4Q)(3P) + (3P)^2 \\ = 16Q^2 - 24PQ + 9P^2$$

$$(4K - 3R)^2 = (4K)^2 - 2(4K)(3R) + (3R)^2 \\ = 16K^2 - 24KR + 9R^2$$

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

مثال

$$(J + 2U)(J - 2U) = (J)^2 - (2U)^2 \\ = J^2 - 4U^2$$

$$(2D + Y)(2D - Y) = (2D)^2 - (Y)^2 \\ = 4D^2 - Y^2$$

$$(2i + 4m)(2i - 4m) = (2i)^2 - (4m)^2 \\ = 4i^2 - 16m^2$$