

بعض أشكال عملية الضرب

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

مثال

$$(4c+k)^2 = (4c)^2 + 2(4c)(k) + (k)^2 \\ = 16c^2 + 8ck + k^2$$

$$(4J+G)^2 = (4J)^2 + 2(4J)(G) + (G)^2 \\ = 16J^2 + 8GJ + G^2$$

$$(3M+2V)^2 = (3M)^2 + 2(3M)(2V) + (2V)^2 \\ = 9M^2 + 12MV + 4V^2$$

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

مثال

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

$$(3z-4y)^2 = (3z)^2 - 2(3z)(4y) + (4y)^2 \\ = 9z^2 - 24yz + 16y^2$$

$$(3Y-4B)^2 = (3Y)^2 - 2(3Y)(4B) + (4B)^2 \\ = 9Y^2 - 24BY + 16B^2$$

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

مثال

$$(4m+5p)(4m-5p) = (4m)^2 - (5p)^2 \\ = 16m^2 - 25p^2$$

$$(3Z+5P)(3Z-5P) = (3Z)^2 - (5P)^2 \\ = 9Z^2 - 25P^2$$

$$(5m+n)(5m-n) = (5m)^2 - (n)^2 \\ = 25m^2 - n^2$$