

بعض أشكال عملية الضرب

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

مثال

$$(5V + 4J)^2 = (5V)^2 + 2(5V)(4J) + (4J)^2 \\ = 25V^2 + 40JV + 16J^2$$

$$(5W + 4F)^2 = (5W)^2 + 2(5W)(4F) + (4F)^2 \\ = 25W^2 + 40FW + 16F^2$$

$$(h + 4d)^2 = (h)^2 + 2(h)(4d) + (4d)^2 \\ = h^2 + 8dh + 16d^2$$

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

مثال

$$(3p - 5i)^2 = (3p)^2 - 2(3p)(5i) + (5i)^2 \\ = 9p^2 - 30ip + 25i^2$$

$$(B - 4S)^2 = (B)^2 - 2(B)(4S) + (4S)^2 \\ = B^2 - 8BS + 16S^2$$

$$(h - 4b)^2 = (h)^2 - 2(h)(4b) + (4b)^2 \\ = h^2 - 8bh + 16b^2$$

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

مثال

$$(5p + x)(5p - x) = (5p)^2 - (x)^2 \\ = 25p^2 - x^2$$

$$(3o + 2h)(3o - 2h) = (3o)^2 - (2h)^2 \\ = 9o^2 - 4h^2$$

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