

بعض أشكال عملية الضرب

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

مثال

$$(H+4R)^2 = (H)^2 + 2(H)(4R) + (4R)^2 \\ = H^2 + 8HR + 16R^2$$

$$(G+3K)^2 = (G)^2 + 2(G)(3K) + (3K)^2 \\ = G^2 + 6GK + 9K^2$$

$$(3f+4m)^2 = (3f)^2 + 2(3f)(4m) + (4m)^2 \\ = 9f^2 + 24fm + 16m^2$$

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

مثال

$$(2B-I)^2 = (2B)^2 - 2(2B)(I) + (I)^2 \\ = 4B^2 - 4BI + I^2$$

$$(4W-3J)^2 = (4W)^2 - 2(4W)(3J) + (3J)^2 \\ = 16W^2 - 24JW + 9J^2$$

$$(2h-5c)^2 = (2h)^2 - 2(2h)(5c) + (5c)^2 \\ = 4h^2 - 20ch + 25c^2$$

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

مثال

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

$$(i+3a)(i-3a) = (i)^2 - (3a)^2 \\ = i^2 - 9a^2$$

$$(4v+2z)(4v-2z) = (4v)^2 - (2z)^2 \\ = 16v^2 - 4z^2$$