

## بعض أشكال عملية الضرب

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

مثال

$$(2K + 5A)^2 = (2K)^2 + 2(2K)(5A) + (5A)^2 \\ = 4K^2 + 20AK + 25A^2$$

$$(5r + 4s)^2 = (5r)^2 + 2(5r)(4s) + (4s)^2 \\ = 25r^2 + 40rs + 16s^2$$

$$(L + 4J)^2 = (L)^2 + 2(L)(4J) + (4J)^2 \\ = L^2 + 8JL + 16J^2$$

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

مثال

$$(2C - 5H)^2 = (2C)^2 - 2(2C)(5H) + (5H)^2 \\ = 4C^2 - 20CH + 25H^2$$

$$(2f - 3z)^2 = (2f)^2 - 2(2f)(3z) + (3z)^2 \\ = 4f^2 - 12fz + 9z^2$$

$$(4E - 3J)^2 = (4E)^2 - 2(4E)(3J) + (3J)^2 \\ = 16E^2 - 24EJ + 9J^2$$

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

مثال

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

$$(5H + 2B)(5H - 2B) = (5H)^2 - (2B)^2 \\ = 25H^2 - 4B^2$$

$$(3v + 4z)(3v - 4z) = (3v)^2 - (4z)^2 \\ = 9v^2 - 16z^2$$