

## بعض أشكال عملية الضرب

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

مثال

$$(3U+K)^2 = (3U)^2 + 2(3U)(K) + (K)^2 \\ = 9U^2 + 6KU + K^2$$

$$(2s+4j)^2 = (2s)^2 + 2(2s)(4j) + (4j)^2 \\ = 4s^2 + 16js + 16j^2$$

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

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

مثال

$$(3U-4W)^2 = (3U)^2 - 2(3U)(4W) + (4W)^2 \\ = 9U^2 - 24UW + 16W^2$$

$$(4h-2r)^2 = (4h)^2 - 2(4h)(2r) + (2r)^2 \\ = 16h^2 - 16hr + 4r^2$$

$$(4K-3E)^2 = (4K)^2 - 2(4K)(3E) + (3E)^2 \\ = 16K^2 - 24EK + 9E^2$$

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

مثال

$$(2m+3j)(2m-3j) = (2m)^2 - (3j)^2 \\ = 4m^2 - 9j^2$$

$$(r+3n)(r-3n) = (r)^2 - (3n)^2 \\ = r^2 - 9n^2$$

$$(u+2g)(u-2g) = (u)^2 - (2g)^2 \\ = u^2 - 4g^2$$