

## بعض أشكال عملية الضرب

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

مثال

$$(3b+4s)^2 = (3b)^2 + 2(3b)(4s) + (4s)^2 \\ = 9b^2 + 24bs + 16s^2$$

$$(2L+3P)^2 = (2L)^2 + 2(2L)(3P) + (3P)^2 \\ = 4L^2 + 12LP + 9P^2$$

$$(i+2h)^2 = (i)^2 + 2(i)(2h) + (2h)^2 \\ = i^2 + 4hi + 4h^2$$

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

مثال

$$(3e-z)^2 = (3e)^2 - 2(3e)(z) + (z)^2 \\ = 9e^2 - 6ez + z^2$$

$$(5H-3F)^2 = (5H)^2 - 2(5H)(3F) + (3F)^2 \\ = 25H^2 - 30FH + 9F^2$$

$$(2G-4T)^2 = (2G)^2 - 2(2G)(4T) + (4T)^2 \\ = 4G^2 - 16GT + 16T^2$$

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

مثال

$$(4B+5I)(4B-5I) = (4B)^2 - (5I)^2 \\ = 16B^2 - 25I^2$$

$$(Z+5C)(Z-5C) = (Z)^2 - (5C)^2 \\ = Z^2 - 25C^2$$

$$(Q+2K)(Q-2K) = (Q)^2 - (2K)^2 \\ = Q^2 - 4K^2$$