

## بعض أشكال عملية الضرب

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

مثال

$$(T+5G)^2 = (T)^2 + 2(T)(5G) + (5G)^2 \\ = T^2 + 10GT + 25G^2$$

$$(4s+2e)^2 = (4s)^2 + 2(4s)(2e) + (2e)^2 \\ = 16s^2 + 16es + 4e^2$$

$$(4R+A)^2 = (4R)^2 + 2(4R)(A) + (A)^2 \\ = 16R^2 + 8AR + A^2$$

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

مثال

$$(4b-u)^2 = (4b)^2 - 2(4b)(u) + (u)^2 \\ = 16b^2 - 8bu + u^2$$

$$(5L-2I)^2 = (5L)^2 - 2(5L)(2I) + (2I)^2 \\ = 25L^2 - 20IL + 4I^2$$

$$(2s-5m)^2 = (2s)^2 - 2(2s)(5m) + (5m)^2 \\ = 4s^2 - 20ms + 25m^2$$

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

مثال

$$(2A+5Q)(2A-5Q) = (2A)^2 - (5Q)^2 \\ = 4A^2 - 25Q^2$$

$$(J+4R)(J-4R) = (J)^2 - (4R)^2 \\ = J^2 - 16R^2$$

$$(2X+5J)(2X-5J) = (2X)^2 - (5J)^2 \\ = 4X^2 - 25J^2$$