

بعض أشكال عملية الضرب

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

مثال

$$(2b+5a)^2 = (2b)^2 + 2(2b)(5a) + (5a)^2 \\ = 4b^2 + 20ab + 25a^2$$

$$(t+5s)^2 = (t)^2 + 2(t)(5s) + (5s)^2 \\ = t^2 + 10st + 25s^2$$

$$(2I+4D)^2 = (2I)^2 + 2(2I)(4D) + (4D)^2 \\ = 4I^2 + 16DI + 16D^2$$

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

مثال

$$(3A-2L)^2 = (3A)^2 - 2(3A)(2L) + (2L)^2 \\ = 9A^2 - 12AL + 4L^2$$

$$(4H-Y)^2 = (4H)^2 - 2(4H)(Y) + (Y)^2 \\ = 16H^2 - 8HY + Y^2$$

$$(3b-4e)^2 = (3b)^2 - 2(3b)(4e) + (4e)^2 \\ = 9b^2 - 24be + 16e^2$$

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

مثال

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

$$(4C+E)(4C-E) = (4C)^2 - (E)^2 \\ = 16C^2 - E^2$$

$$(5K+U)(5K-U) = (5K)^2 - (U)^2 \\ = 25K^2 - U^2$$