

بعض أشكال عملية الضرب

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

مثال

$$(2b+3d)^2 = (2b)^2 + 2(2b)(3d) + (3d)^2 \\ = 4b^2 + 12bd + 9d^2$$

$$(4u+5m)^2 = (4u)^2 + 2(4u)(5m) + (5m)^2 \\ = 16u^2 + 40mu + 25m^2$$

$$(2Y+D)^2 = (2Y)^2 + 2(2Y)(D) + (D)^2 \\ = 4Y^2 + 4DY + D^2$$

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

مثال

$$(4w-3x)^2 = (4w)^2 - 2(4w)(3x) + (3x)^2 \\ = 16w^2 - 24wx + 9x^2$$

$$(c-5e)^2 = (c)^2 - 2(c)(5e) + (5e)^2 \\ = c^2 - 10ce + 25e^2$$

$$(2f-3e)^2 = (2f)^2 - 2(2f)(3e) + (3e)^2 \\ = 4f^2 - 12ef + 9e^2$$

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

مثال

$$(2t+5a)(2t-5a) = (2t)^2 - (5a)^2 \\ = 4t^2 - 25a^2$$

$$(2Y+4Z)(2Y-4Z) = (2Y)^2 - (4Z)^2 \\ = 4Y^2 - 16Z^2$$

$$(3G+4X)(3G-4X) = (3G)^2 - (4X)^2 \\ = 9G^2 - 16X^2$$