

بعض أشكال عملية الضرب

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

مثال

$$(3x+y)^2 = (3x)^2 + 2(3x)(y) + (y)^2 \\ = 9x^2 + 6xy + y^2$$

$$(2V+W)^2 = (2V)^2 + 2(2V)(W) + (W)^2 \\ = 4V^2 + 4VW + W^2$$

$$(5h+2m)^2 = (5h)^2 + 2(5h)(2m) + (2m)^2 \\ = 25h^2 + 20hm + 4m^2$$

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

مثال

$$(5D-3G)^2 = (5D)^2 - 2(5D)(3G) + (3G)^2 \\ = 25D^2 - 30DG + 9G^2$$

$$(4Y-I)^2 = (4Y)^2 - 2(4Y)(I) + (I)^2 \\ = 16Y^2 - 8IY + I^2$$

$$(3f-4w)^2 = (3f)^2 - 2(3f)(4w) + (4w)^2 \\ = 9f^2 - 24fw + 16w^2$$

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

مثال

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

$$(5C+3H)(5C-3H) = (5C)^2 - (3H)^2 \\ = 25C^2 - 9H^2$$

$$(4M+L)(4M-L) = (4M)^2 - (L)^2 \\ = 16M^2 - L^2$$