

بعض أشكال عملية الضرب

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

مثال

$$(3o+f)^2 = (3o)^2 + 2(3o)(f) + (f)^2 \\ = 9o^2 + 6fo + f^2$$

$$(4E+2O)^2 = (4E)^2 + 2(4E)(2O) + (2O)^2 \\ = 16E^2 + 16EO + 4O^2$$

$$(M+4A)^2 = (M)^2 + 2(M)(4A) + (4A)^2 \\ = M^2 + 8AM + 16A^2$$

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

مثال

$$(5Y-J)^2 = (5Y)^2 - 2(5Y)(J) + (J)^2 \\ = 25Y^2 - 10JY + J^2$$

$$(2F-3T)^2 = (2F)^2 - 2(2F)(3T) + (3T)^2 \\ = 4F^2 - 12FT + 9T^2$$

$$(2g-5n)^2 = (2g)^2 - 2(2g)(5n) + (5n)^2 \\ = 4g^2 - 20gn + 25n^2$$

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

مثال

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

$$(4v+3r)(4v-3r) = (4v)^2 - (3r)^2 \\ = 16v^2 - 9r^2$$

$$(5o+4w)(5o-4w) = (5o)^2 - (4w)^2 \\ = 25o^2 - 16w^2$$