

بعض أشكال عملية الضرب

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

مثال

$$(3Q + 4V)^2 = (3Q)^2 + 2(3Q)(4V) + (4V)^2 \\ = 9Q^2 + 24QV + 16V^2$$

$$(4g + 3f)^2 = (4g)^2 + 2(4g)(3f) + (3f)^2 \\ = 16g^2 + 24fg + 9f^2$$

$$(M + 3L)^2 = (M)^2 + 2(M)(3L) + (3L)^2 \\ = M^2 + 6LM + 9L^2$$

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

مثال

$$(4F - 3H)^2 = (4F)^2 - 2(4F)(3H) + (3H)^2 \\ = 16F^2 - 24FH + 9H^2$$

$$(s - 3i)^2 = (s)^2 - 2(s)(3i) + (3i)^2 \\ = s^2 - 6is + 9i^2$$

$$(3E - A)^2 = (3E)^2 - 2(3E)(A) + (A)^2 \\ = 9E^2 - 6AE + A^2$$

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

مثال

$$(C + 2Q)(C - 2Q) = (C)^2 - (2Q)^2 \\ = C^2 - 4Q^2$$

$$(5S + 3Y)(5S - 3Y) = (5S)^2 - (3Y)^2 \\ = 25S^2 - 9Y^2$$

$$(v + 4t)(v - 4t) = (v)^2 - (4t)^2 \\ = v^2 - 16t^2$$