

MAGIC SQUARE – Quadratic Equations

Take the number of the statement that best describes the word in the box and place it over the word in the box. If they are all right, each column and each row will total up to be the magic number.

quadratic equations	linear equations	$x^2 + 6x + 9 = 0$
$x^2 - x - 2 = 0$	factor	discriminant
completing the square	quadratic formula	factoring

Total of each row:

Total of
Column _____

- The equation $x^2 + 6x - 2 = 0$ cannot be solved by _____ the left side of the equation. This more powerful way to solve is needed.
- $(x - 2)(x + 1) = 0$ is equivalent to _____.
- An equation in the form of $ax + b = 0$ is a _____.
- The fact that, if a product of two numbers is zero then one or both factors must be zero, allows us to solve any quadratic equation that has zero on one side provided we can _____ the other side.
- $(x + 3)^2 = 0$ is equivalent to _____.
- The rule for _____ works only when the coefficient of x^2 is 1.
- $ax^2 + bx + c = 0$ is the general form for a _____.
- $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
- The expression $b^2 - 4ac$ that appears under the square root sign in number 8 is called the _____.