

## An Absolute Value Equation Has Extraneous Solution

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[Four Steps to Solve a Absolute Value Equation](#) **Solve Absolute Value Equations Easily** [Write an absolute value equation from a number line](#) [Intermediate Algebra Lecture 9.2: Solving Absolute Value Equations](#) [An Absolute Value Equation Has](#) Absolute value equations with no solutions. As we are solving absolute value equations it is important to be aware of special cases. An absolute value is defined as the distance from 0 on a number line, so it must be a positive number. When an absolute value expression is equal to a negative number, we say the equation has no solution, or DNE.

[Equations and Inequalities with Absolute Value | College ...](#)

Some absolute value equations have variables both sides of the equation. However, that will not change the steps we're going to follow to solve the problem as the example below shows: Solve the following absolute value equation:  $|5x + 20| = 80$ . Solve the following absolute value equation:  $|x| + 3 = 2x$ .

[Absolute Value Equations: How to solve absolute value ...](#)

An absolute value equation is an equation in which the unknown variable appears in absolute value bars.

[1.7: Absolute Value Functions - Mathematics LibreTexts](#)

Absolute Value. The absolute value of a number is its distance from 0 on the number line. Remember: Distance can never be negative; therefore, the absolute value of a number is always positive. Absolute value is indicated by the absolute value bars:  $|x|$  Examples:  $|-5| = 5$  (-5 is five units away from 0 on the number line).

[How to Solve an Absolute Value Equation](#)

At first, when one has to solve an absolute value equation. The questions can sometimes appear intimidating, but they're really not as tough as they sometimes first seem. The Absolute Value Introduction page has an introduction to what absolute value represents. Primarily the distance between points.

[Absolute Value Equations Examples - MathLearnIt.com](#)

Solve  $|x - 3| = |3x + 2| - 1$ . The first absolute-value expression, in the left-hand side of the equation, is positive when the argument is positive. I'll solve to find that interval:  $x - 3 > 0$ .  $x > 3$ . The argument of this absolute value will be negative before the breakpoint (at  $x = 3$ ) and positive after.

[Solving Absolute-Value Equations: A Special Case | Purplemath](#)

Question 78693: Absolute value equations have how many solutions? Answer by rapaljer(4671) (Show Source): You can put this solution on YOUR website! This depends upon the problem. USUALLY there are TWO solutions. If an absolute value is being compared to a POSITIVE number, then there will be TWO solutions.

[SOLUTION: Absolute value equations have how many solutions?](#)

Solve an absolute value equation using the following steps: Get the absolute value expression by itself. Set up two equations and solve them separately. Absolute Value Equation Video Lesson. Khan Academy Video: Absolute Value Equations; Need more problem types? Try ...

[Absolute Value Equation Calculator - MathPapa](#)

An absolute value equation        has an extraneous solution. a. never b. sometimes c. always A furniture maker uses the specification  $21.88 < w < 22.12$  for the width  $w$  in inches of a desk drawer. Write the specification as an inequality.

[An absolute value equation        has an extraneous solution ...](#)

## Download Free An Absolute Value Equation Has Extraneous Solution

The absolute value of a number is its distance away from zero. That number will always be positive, as you cannot be negative two feet away from something. So any absolute value equation set equal to a negative number is no solution, regardless of what that number is.  $|x| \neq -y$ .

### How can an absolute value equation have no solution ...

An absolute value equation is any equation that contains an absolute value expression. The absolute value of a variable is denoted as  $| |$ , and it is always positive, except for zero, which is neither positive nor negative. An absolute value equation is solved using the same rules as any other algebraic equation; however, this type of equation has two potential results, derived from a positive equation and a negative equation.

### How to Solve Absolute Value Equations: 10 Steps (with ...

Absolute value equations with no solutions As we are solving absolute value equations it is important to be aware of special cases. An absolute value is defined as the distance from 0 on a number line, so it must be a positive number. When an absolute value expression is equal to a negative number, we say the equation has no solution, or DNE.

### 6.3 - Equations and Inequalities with Absolute Value ...

Let me just rewrite this equation so that the absolute values really pop out. So this is 8 times the absolute value of x plus 7 plus 4-- in that same color-- is equal to negative 6 times the absolute value of x plus 7 plus 6. Now the key here-- at first it looks kind of daunting. It's this complex equation. You have these absolute values in it.

### Worked example: absolute value equation with two solutions ...

Learn how to solve absolute value equations. Absolute value of a number is the positive value of the number. For instance, the absolute value of 2 is 2 and th...

### How to Determine When an Absolute Value Equation Has No ...

it means that if the the equation equals an integer greater or less than 0 it will have 2 answers, which correlate to the graph later on in algebra. as you can see with this video, when an absolute value equals 0, it is just 0. a special exception. 3 comments.

### Worked example: absolute value equations with one solution ...

Absolute Value means..... how far a number is from zero: "6" is 6 away from zero, and "-6" is also 6 away from zero.

### Absolute Value in Algebra - MATH

To this point we've only looked at equations that involve an absolute value being equal to a number, but there is no reason to think that there has to only be a number on the other side of the equal sign. Likewise, there is no reason to think that we can only have one absolute value in the problem.

### Algebra - Absolute Value Equations - Lamar University

Solve equations with absolute value; including examples and questions with detailed solutions and explanations. Review of Absolute Value The rules you need to know in order to be able to solve the question in this tutorial. 1)  $|x| = 0$  if  $x = 0$  2)  $|x| = x$  if  $x > 0$  3)  $|x| = -x$  if  $x < 0$  4) The equation  $|x| = k$  with  $k < 0$  has no real ...

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