

## Extraneous Solutions Absolute Value Equations

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### Extraneous Solutions Absolute Value Equations

Absolute value is the distance away from zero.  $|4x| = 28$   $4x = 28$  or  $4x = -28$  {the two numbers that are 28 away from zero are 28 and -28}  $x = 7$  or  $x = -7$  {divided each side by 4} Check. If it makes a false statement, then it is an extraneous solution.

### Checking an absolute value equation for extraneous solutions

In summary we solve the equation absolute value of A equals B by splitting it into two equations. A equals B or A equals negative B. Remember, we have to isolate the absolute value before we can split it into the two or equations.

### Absolute Value Equations - Magoosh GRE

Algebra -> Absolute-value-> SOLUTION: Solve each equation. Check for extraneous solutions. Equation:  $|5x-1|+7=3x$  Here's

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what I did:  $|5x-1|+7=3x-7-7$   $|5x+1|=3x-7$   $5x-1=3x-7$  OR  $5x-1=-(3x-7)+1$  Log On

**SOLUTION: Solve each equation. Check for extraneous ...**  
Steps. The General Steps to solve an absolute value equation are: Rewrite the absolute value equation as two separate equations, one positive and the other negative. Solve each equation separately. After solving, substitute your answers back into original equation to verify that you solutions are valid. Write out the final solution or graph it as needed.

**Absolute Value Equations: How to solve absolute value ...**  
Absolute Value Word Problem: Solution: Two students are bouncing-passing a ball between them. The first student bounces the ball from 6 feet high and it bounces 5 feet away from her. The second student is 4 feet away from where the ball bounced. Create an absolute value equation to represent the situation.

## **Solving Absolute Value Equations and Inequalities - She ...**

We're told, solve the absolute value of  $3x$  minus  $9$  is equal to  $0$ , and graph the solution on a number line. So let's just rewrite the absolute value equation. They told us that the absolute value of  $3x$  minus  $9$  is equal to  $0$ . So we're told that the absolute value of the something-- in this case the something is  $3x$  minus  $9$ -- is equal to  $0$ .

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

Steps for Solving Linear Absolute Value Equations : i.e.  $+ = 1$ .  
1. Isolate the absolute value. 2. Identify what the isolated absolute value is set equal to... a. If the absolute value is set equal to zero , remove absolute value symbols & solve the equation to get one solution . b. If the absolute value is set equal to a negative number, there is ...

## **Solving Absolute Value Equations and Inequalities**

Thus, a solution may be extraneous because it results from using a negative square root instead of the principle square root. Here's an example:  $\sqrt{x} = x - 6$ . To solve this, we square both

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sides:  $x = x^2 - 12x + 36$ . Rearrange, simplify, factor, solve:  $x^2 - 13x + 36 = 0$ .  $(x - 9)(x - 4) = 0$ .  $x = 9$  or  $x = 4$ .

## Why Do Extraneous Solutions Occur? - Ask Professor Puzzler

Free absolute value equation calculator - solve absolute value equations with all the steps. Type in any equation to get the solution, steps and graph This website uses cookies to ensure you get the best experience.

## Absolute Value Equation Calculator - Symbolab

Learn how to solve absolute value equations with extraneous solutions. Absolute value of a number is the positive value of the number. For instance, the abso...

## Solving an Absolute Value Equation and Checking for ...

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 Calculator - MathPapa

I am currently in a Pre Calculus class at my High School. I have come across the concept of extraneous solutions, particularly when solving absolute value equations, radical equations, and logarithmic equations.

## algebra precalculus - Why do extraneous solutions exist

...

An extraneous solution is a root of a transformed equation that is not a root of the original equation because it was excluded from the domain of the original equation. Varsity Tutors.

## Extraneous Solutions - Varsity Tutors

In general, whenever we multiply both sides of an equation by an expression involving variables, we introduce extraneous solutions wherever that expression is equal to zero. But it is not sufficient to exclude these values, because they may have been legitimate solutions to the original equation.

## Extraneous and missing solutions - Wikipedia

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Your absolute value equation looks like this  $|x+6| = 2x$  Right from the start, you can say that any negative value of  $x$  will be an extraneous solution because the absolute value of a number can only be positive.. So, you need to check two cases for your equation. If  $(x+6) > 0$ , you have  $|x+6| = x+6$  The equation becomes

### **How do you solve and check for extraneous solutions in abs ...**

Extraneous Solution Absolute Value Absolute value is the distance away from zero.  $|4x| = 28$   $4x = 28$  or  $4x = -28$  {the two numbers that are 28 away from zero are 28 and -28}  $x = 7$  or  $x = -7$  {divided each side by 4} Check. If it makes a false statement, then it is an extraneous solution. Checking an absolute value equation for extraneous solutions

### **Extraneous Solution Absolute Value - modapktown.com**

Thus, any negative value of will make the right side of the equation equal to a negative number, which cannot be true for an absolute value expression. Thus, is an extraneous solution, as cannot equal a negative number. Our final solution is then. Report an Error.

### **Solving Absolute Value Equations - High School Math**

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