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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. Check 7: $|4(7)| = 28$ $|28| = 28$ {multiplied} $28 = 28$ {true statement, so 7 is not extraneous} Check -7:

Absolute value equations with extraneous solutions ...

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

Master Solving Absolute Value Equations with Extraneous solutions

Absolute Value Equations With Extraneous Solutions Worksheet. Printables Absolute Value Inequalities Worksheet. 43 Simple Absolute Value Equations Worksheet Design Ideas. Solving Absolute Value Equations Inequalities Worksheet Math. Av 2 Absolute Value Functions Transformations Domain And. Absolute Value Equations With Extraneous Solutions ...

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Extraneous Solutions ...

Absolute value equations with extraneous solutions. You can see this by the simple fact that the left side of the equation has to be positive (since the entire left side is inside the absolute value "brackets"). Since $8/3 - 5$ is a negative number, it can't be equal to the left side! When you plug in $8/3$ you get $7/3 = -7/3$ which does not make sense.

(Section 7) - Mrs. Ballard's Math Site

How to Solve Radical Equations with Extraneous Solutions. A radical equation is an equation that contains a square root, cube root, or other higher root of the variable in the original problem. "Radical" is the term used for the $\sqrt{\quad}$...

Solve the absolute value equation. Check for extraneous ...

In mathematics, an extraneous solution is a solution, such as that to an equation, that emerges from the process of solving the problem but is not a valid solution to the problem. A missing solution is a solution that is a valid solution to the problem, but disappeared during the process of solving the problem. Both are frequently the consequence of performing operations that are not invertible for some or all values of the variables, which prevents the chain of logical implications in the proof

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Solve absolute value equations (practice) | Khan Academy

How to determine if solutions are extraneous for absolute value equations - Duration: 4:22. Brian McLogan 4,029 views

Solving Absolute Value Equations and Inequalities - She ...

Advanced Absolute Value Equations - Extraneous Solutions. Hit the "play" button on the player below to start the audio. You can use the forward and back buttons to navigate between the lesson's pages. Additional buttons on the last page may link to a video segment and/or online quiz. Hit audio for sound. Use arrow keys to move between steps.

Absolute Value Equations: How to solve absolute value ...

able. Circle the letter of the equation that relates the age of Arianna, y , to the age of Javier, x .
Javier's age, x 2 3 8 20
Arianna's age, y 5c $y = 22$
 $A = X \div 2$
 $B y = x + 3$
When Javier is 30 years old, Arianna will be
Houton Mift Harcourt Additions and changes to the principal content are the regnans

Absolute Value Equations - Magoosh GRE

Click here to see ALL problems on absolute-value. Question 209593: Solve each equation. Check for extraneous solutions. So, $x = -3$ or $x = 1$. But 23 doesn't equal 9. At first I thought it was just an extraneous solution.

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But again, 11 doesn't equal 3.

SOLUTION: Solve each equation. Check for extraneous ...

When you solve an absolute value equation, it is possible for a solution to be extraneous . An extraneous solution is an apparent solution that must be rejected

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

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Absolute Value Equations With Extraneous Solutions ...

Absolute Value Equations and Inequalities
Absolute Value Definition - The absolute value of x , is defined as... $=$, ≥ 0 -, < 0 where x is called the "argument" 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.

Checking an absolute value equation for extraneous solutions

So, either these equations absolute value of 5 equals x or absolute value of negative 5 equals x would have the single solution x equals 5. Those are not very interesting

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equations, it's not very interesting when there are no variables inside the absolute value.

Extraneous and missing solutions - Wikipedia

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.

Solving Absolute Value Equations and Inequalities

Solve Absolute Value Equations (Section 1-7) Standard 1.0 ... Solve the equation. Check for extraneous solutions. Example 9 Standard 1.0 Essential Question: How are absolute value equations like linear equations? Solve the equation. Check for extraneous solutions.

Solving Absolute Value Equations

Absolute Value functions typically look like a V (upside down if the absolute value is negative), where the point at the V is called the vertex. For the absolute value parent function, the vertex is at $(0,0)$.

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