

absolute value with no solution

Absolute Value with No Solution: A Comprehensive Guide

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Summary: This guide explores the circumstances under which absolute value equations and inequalities result in no solution. It explains the fundamental properties of absolute values, demonstrates various solution methods, and highlights common mistakes students make when tackling these problems. We'll cover both graphical and algebraic approaches, providing clear examples and explanations to build a strong understanding of "absolute value with no solution" scenarios.

1. Understanding Absolute Value

Before delving into situations where absolute value equations or inequalities yield no solution, let's establish a firm understanding of absolute value itself. The absolute value of a number is its distance from zero on the number line. This means the absolute value is always non-negative. We denote the absolute value of x as $|x|$.

For example:

$$|5| = 5$$

$$|-5| = 5$$

$$|0| = 0$$

This simple definition has profound implications when solving equations and inequalities involving absolute value.

2. Absolute Value Equations with No Solution

An absolute value equation is an equation where the variable is enclosed within absolute value symbols. The key to solving these equations is to consider both the positive and negative possibilities of the expression inside the absolute value.

Consider the equation $|x + 2| = -3$. Since the absolute value of any expression is always non-negative, there is no value of x that can make $|x + 2|$ equal to -3 . Therefore, this equation has no solution.

General Rule: If an absolute value expression is set equal to a negative number, the equation has no solution.

3. Absolute Value Inequalities with No Solution

Absolute value inequalities are similar, but instead of equality, we have inequality symbols ($<$, $>$, $\leq$, $\geq$). These inequalities can also result in no solution under specific circumstances.

Let's analyze the inequality $|x - 5| < -2$. Again, because the absolute value of any expression is always greater than or equal to zero, it can never be less than -2 . Therefore, this inequality has no solution.

General Rule: If an absolute value expression is set to be less than a negative number, the inequality has no solution.

4. Solving Absolute Value Equations and Inequalities: A Step-by-Step Approach

To avoid "absolute value with no solution" pitfalls, follow these steps:

1. Isolate the absolute value expression: Manipulate the equation or inequality until the absolute value term is by itself on one side of the equation or inequality sign.
1. Consider both positive and negative cases: For equations, create two separate equations: one where the expression inside the absolute value is equal to the right-hand side, and another where it's equal to the negative of the right-hand side. For inequalities, adjust the inequality symbol accordingly. Remember to flip the inequality sign when multiplying or dividing by a negative number.

1. Solve each equation or inequality separately: Solve for the variable in each of the equations or inequalities created in step 2.

1. Check for extraneous solutions: Always check your solutions by substituting them back into the original equation or inequality. Some solutions obtained might not satisfy the original equation or inequality.

1. Identify no solution scenarios: If, after completing steps 1-4, you find no values of x that satisfy the original equation or inequality (e.g., you arrive at a contradiction such as $0 = -2$), then the equation or inequality has no solution.

5. Graphical Representation of Absolute Value with No Solution

Graphing can be a valuable tool for visualizing why some absolute value equations and inequalities have no solution. For example, the graph of $y = |x + 2|$ is a V-shaped graph that never intersects the line $y = -3$, visually confirming the absence of solutions for $|x + 2| = -3$.

6. Common Pitfalls to Avoid

Forgetting to consider the negative case: This is the most frequent mistake. Always remember that the expression inside the absolute value can be either positive or negative.

Incorrectly manipulating inequalities: Pay close attention to the direction of the inequality symbol, especially when multiplying or dividing by a negative number.

Not checking for extraneous solutions: Always substitute your solutions back into the original equation or inequality to verify they are valid.

Misinterpreting the meaning of absolute value: Remember that the absolute value represents distance and is always non-negative.

7. Advanced Scenarios and Complex Equations

While the basic principles remain the same, more complex absolute value equations and inequalities might require more advanced algebraic techniques,

such as factoring, quadratic formula, or even substitution. The core concept of "absolute value with no solution" however remains consistent.

8. Conclusion

Understanding when an absolute value equation or inequality has no solution is crucial for mastering the concept of absolute value. By carefully following the steps outlined, considering both positive and negative cases, and checking for extraneous solutions, you can confidently determine whether a given problem has a solution or yields "absolute value with no solution" scenario. Remembering the fundamental property that the absolute value is always non-negative is key to avoiding common errors.

FAQs

1. Can an absolute value equation have more than one solution? Yes, it can have two solutions, one solution, or no solution.
1. Can an absolute value inequality have an infinite number of solutions? Yes, it can represent an interval on the number line.
1. What is the difference between solving an absolute value equation and an absolute value inequality? The main difference lies in the use of the equality (=) versus inequality symbols (<, >, ≤, ≥).
1. How can I graph an absolute value equation or inequality to help visualize the solution? Plot the function and then visually identify the intersection points (for equations) or regions (for inequalities).
1. What if the absolute value expression contains a variable inside another function (e.g., $|\sin(x)| = 2$)? You would solve the inner function first, and then consider the absolute value.
1. Are there any software or online tools that can help solve absolute value equations and inequalities? Yes, many graphing calculators and

online math solvers can assist.

1. How do I handle absolute value equations with multiple absolute value expressions? You would typically analyze cases based on the different combinations of signs within each absolute value expression.
1. What is the significance of identifying situations with 'absolute value with no solution'? Recognizing when no solution exists prevents wasted effort and shows a strong understanding of the concept's limitations.
1. Can absolute value equations lead to complex solutions? While absolute value itself doesn't directly involve complex numbers, the underlying equation might lead to complex solutions in some advanced cases.

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1. $-5x + 4 = -11$ No solution. 10) $x + 4 = -1$ No solution. 11) $3x + 9 = 8$ {3, -3} 12) $-4b - 2 = -9$ {9, -5} 13) $10 - 7x + 3 = 0$ -3 7} 14) $-8 - 3 - 8k = 40$ No solution.

Solve the Absolute Value Equation T1ES1 - Math Worksheets ...

In case of no solution, write $\emptyset$ (null set). 1) $- = 3$ Solution = 2) $-- = 5$ Solution = 3) $= 9$ Solution = 4) $= -6$ Solution = 5) $= 4$ Solution = 6) $= 6$... Solve the Absolute Value Equation Answer key ...

Review: Absolute Value Equations and Inequalities

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jtEs3 Zrueas 3e yr6voeDd7.l Z dM Favd Eeh UwfiktTh 0 uI 8nlf Vi0nwiftbe d
qAZl9gae Jb5r la9 D1 8.8 ...

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Solving Absolute Value Equations Date_____ Period_____ Solve each equation. 1)
 $3x = 9$ 2) $-3r = 9$ 3) $b + 5 = 1$ 4) $-6m = 30$ 5) $n + 3 = 2$ 6) $-4 + 5x = 16$ 7) $-2r -$
 $1 = 11$ 8) $1 - 5a = 29$ 9) $-2n + 6 =$...

L.6 Absolute Value Equations and Inequalities

Step 1 Isolate the absolute value expression on one side of the equation.

Step 2 Check for special cases, such as $|a| = b$ $a = b$ $|a| = -b$ No

solution . Step 2 Remove the absolute value symbol by ...

In Solving Absolute Value Equations and Inequalities

Absolute value equations may have one, two, or no solutions. • An absolute value equation has one solution if one of the answers does not meet the constraints of the problem. Such an ...

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Solving Absolute Value Equations STEP 1: Look at your equation. Is the absolute value isolated? NO YES STEP 2: Is the absolute value equal to a negative number? YES NO Isolate the ...

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Absolute Value Equations To solve an absolute value equation: 1. Isolate the absolute value. 2. Use the absolute value principle to set up the equivalent equation(s). a. If $|x| = p$, where p is a ...

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Section 2.8: Absolute Value absolute value x , $|x| = C$ has no ...

In this lesson, you'll learn to solve absolute value equations and inequalities. Definition: The absolute value of x , denoted $|x|$, is the distance x is from 0. Solving Absolute Value Equations If ...

[Absolute Value - wc.edu](#)

1. Isolate the absolute value on one side of the equation. 2) Clear the absolute value bars and split the equation into 2 possible cases, one positive and one negative. 3) Solve for the ...

ABSOLUTE VALUE - All Things Algebra®

Objective: To practice solving absolute value equations. The includes steps inside and outside the absolute value expression. There is one no solution problem included. Notes: Cornell Notes ...

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When $c < 0$, the absolute value equation $|ax + b| = c$ has no solution because absolute value always indicates a number that is not negative. CCh 1 book.indb 38h 1 book.indb 38 77/11/17 ...

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The graph of the solution of the conjunction is the intersection of the two inequalities. Both conditions of the inequalities must be met. In other words, the solution is wherever the two ...

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1.6 Practice - Absolute Value Equations - CCfaculty.org

1.6 Answers to Absolute Value Equations 1) No solution. $\emptyset$ 2) No solution. $\emptyset$ 3) $\{4, -4\}$ 4) $\{6, -6\}$ 5) $\{7, -7\}$ 6) $\{6, -6\}$ 7) $\{35, -35\}$

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ErKeKsxeBrRvheNdI.M r MMSa^d^eB owGictWh^ tI[nSfhiInHimtdeS rAxl_gCeqb\rCam
[2d.

1.Solving Absolute Value Equations and Inequalities - Open ...

There are no procedures for moving numbers into and out of the absolute value, only the definition of the absolute value, so we must first isolate the absolute value. We do this by subtracting 2 ...

Ex: $3 = 3$ and $3 = 3 * \text{Absolute value is always positive! Ex: } x \dots$

Algebra 1 Lesson 65 (part 1) Absolute Value Equations.notebook 1 January 22, 2014 Algebra 1 Lesson 65 (part 1): Absolute Value Equations absolute value
The number of spaces a number ...

SSolving Absolute Value Equationsolving Absolute Value ...

When $c < 0$, the absolute value equation $|ax + b| = c$ has no solution because absolute value always indicates a number that is not negative. To solve $|ax + b| = |cx + d|$, solve the related ...

CorrectionKey=NL-C;CA-C Name Class Date 2.2 Solving ...

When the absolute value is equal to a negative number, there is no solution because absolute value is never negative. Example 2 Isolate the absolute value expression in each equation to ...

9-12 Honors Algebra II Curriculum - St. Charles High School

- Solve a multi-step absolute value equation
- Solve a multi-step absolute value inequality and graph the solution on a number line
- Solve an absolute value equation/inequality with no ...

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Lesson 4-6 Absolute Value Equations and Inequalities 237 Solving an Absolute Value Inequality Solve $\Delta v - 3\Delta \$ 4$. Graph the solutions. $v - 3 \# -4$ or $v - 3 \$ 4$ Write a compound inequality. $v - 3 + 3 \# \dots$

Absolute Value Equations Absolute Value Inequalities

There is no number whose absolute value is less than -3 (or less than ... 47 3. $x. - < -1.8 - 16$. Example 4. SOLVING SPECIAL CASES OF ABSOLUTE VALUE EQUATIONS AND ...

Solving Absolute Value Equations - Big Ideas Learning

When $c < 0$, the absolute value equation $|ax + b| = c$ has no solution because absolute value always indicates a number that is not negative. Notes: ... Graph the solution(s), if possible. 1.312 0x ...

Unit 7 - Absolute Value and Reciprocal Functions - Mrs. Lau's ...

7 Chapter 7 – Absolute Value and Reciprocal Functions Pre-Calculus 11 When solving an absolute value equation, begin by first isolating the absolute value. Absolute Value Equation ...

AGENDA Classwork: Absolute Value Equations and Inequalities

Graph the solution. An absolute value equation has a variable within the absolute value sign. For example, $x = 5$. Here, the value of x can be 5 or -5 since $|5|$ and $|-5|$ both equal 5. Both 5 ...

Absolute Value - Saint Mary's University

however, by noting that our absolute value expression is equal to a negative value, we know that there can be no solution. No value can be substituted into our equation for that will result in the ...

Solving Absolute Value Equations Solving Absolute Value ...

When $c < 0$, the absolute value equation $|ax + b| = c$ has no solution because absolute value always indicates a number that is not negative. To solve $|ax + b| = |cx + d|$, solve the related ...

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Graphing Absolute Value Inequalities MATH MONKS Sketch the graph of each linear inequality. $0 < y < 12x - 14$ @ $13x - 12 \leq 6$ $|x - 3|$. Graphing Absolute Value Answers $0 < y < 12x - 14$...

Solving Absolute Value Inequalities - bigideasmath.com

Graph the solution, if possible. 1. $2.29 \leq 8x - 517 \leq 2q - 3$. $y - 211 \geq 4$. $5.512 \leq 15 - r$ 6. $-23 \leq 5 \leq 10d \leq 32$ 8 $11 \leq 5a \leq -7$. 9. $-21 \leq 3 \leq 9$ 12h 8. ... Write an absolute value inequality ...

Solving Linear Equations - Absolute Value - CCfaculty.org

Solving Linear Equations - Absolute Value Objective: Solve linear absolute value equations. When solving equations with absolute value we can end up with more than one ... When this occurs ...

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13.3: Solving Absolute Value Equations - Loveseat

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prAessueVrBvzeldZ. ...

Solving Absolute Value Equations - onlinelabs.yolasite.com

Solving Absolute Value Equations . BACKGROUND There are two sign values for

the contents of any absolute value that will have the same ... No solution.
The absolute value of something is ...

How to Enter Answers in WeBWork - University of Kentucky

are no universal rules as to which should be done first in the absence of parentheses. WeBWork and many computers read things from left to right, so $2/3*4$ means $(2/3)*4=8/3$. But some ...

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