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Algebra 2 Solving Absolute Value Equations and Inequalities Part 1

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~~Absolute Value Equations~~ Algebra Ii Absolute Value Equations

Absolute value. The solution set of the equation $|x| = 3$ is $\{3, -3\}$, because $|3| = 3$ and $|-3| = 3$. Example 1. Solve for x : $|4x - 2| = 8$. This translates to “ $4x - 2$ is 8 units from zero on the number line” (see Figure 2). Check the solution. These are true statements.

Absolute Value Equations - CliffsNotes

So, this leads to the following general formula for equations involving absolute value. If $|p| = b$, $b > 0$ then $p = -b$ or $p = b$ If $|p| = b$, $b > 0$ then $p = -b$

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or $p = b$. Notice that this does require the b be a positive number. We will deal with what happens if b is zero or negative in a bit.

Algebra - Absolute Value Equations

Solving Absolute Value Equations For most absolute value equations, you will need to write two equations to solve. Therefore, you will most likely end up with two answers to the equation. The answer to an absolute value equation can never be negative.

Equations with Absolute Value - Algebra-Class.com

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math skills.

IXL - Solve absolute value equations (Algebra 2 practice)

To make the absolute value term positive, both sides are multiplied by (-1) . $2|c-50| = 60$. Step 2 : Clear the Absolute Value Bars. Clear the absolute-value bars by splitting the equation into its two cases, one for the Positive case and the other for the Negative case. The Absolute Value term is $2|c-50|$ For the Negative case we'll use $-2(c-50)$...

Solve Absolute value equations $60=2|c-50|$ Tiger Algebra Solver

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To make the absolute value term positive, both sides are multiplied by (-1). $|m+2| = 9$. Step 2 : Clear the Absolute Value Bars. Clear the absolute-value bars by splitting the equation into its two cases, one for the Positive case and the other for the Negative case. The Absolute Value term is $|m+2|$ For the Negative case we'll use $-(m+2)$ For ...

Solve Absolute value equations $9=|m+2|$ Tiger Algebra Solver

Here are some properties of absolute values that can be useful: $|a| \geq 0$ always! That makes sense ... $|a|$ can never be less than zero. $|a| = \sqrt{a^2}$ Squaring a makes it positive or zero (for a as a Real Number).

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Then taking the square root will "undo" the squaring, but leave it positive or zero. $|a \times b| = |a| \times |b|$.

Absolute Value in Algebra - MATH

Absolute value equations are equations where the variable is within an absolute value operator, like $|x-5|=9$. The challenge is that the absolute value of a number depends on the number's sign: if it's positive, it's equal to the number: $|9|=9$. If the number is negative, then the absolute value is its opposite: $|-9|=9$.

Intro to absolute value equations and graphs (video ...

For most absolute value equations, you will write two

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different equations to solve. The value inside of the absolute value can be positive or negative. If the answer to an absolute value equation is negative, then the answer is the empty set. No absolute value can be a negative number.

[How to Solve an Absolute Value Equation - Algebra-Class.com](#)

About absolute value equations 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](#)

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If the value of x was negative to start with, then I can bring that value out of the absolute-value bars by changing the sign on x , giving me the equation $-x = 3$, which solves as $x = -3$. Then my solution is. $x = \pm 3$. Content Continues Below. We can, by the way, verify the above solution graphically.

Solving Simpler Absolute-Value Equations | Purplemath

Play this game to review Algebra II. Solve for x $|5x| = 40$. Preview this quiz on Quizizz. Solve for x $|5x| = 40$. Absolute Value Equations DRAFT. 9th - 12th grade. 1303 times. Mathematics. 68% average accuracy. 3 years ago. rmorales. 4. Save. Edit. Edit. Absolute Value

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<http://www.facebook.com/mathematicsbyjgreene> In this video, we learn how to solve absolute value equations.

Algebra II Main Lesson V.1: Solving Absolute Value Equations

it is an ordered pair, so to find the xcoordinate on an absolute value graph, set the stuff inside $| | = 0$ and solve to find the ycoordinate, substitute the x value into the equation @: $(-h,k)$ Steps for graphing an absolute value function: 1. Calculate the vertex (and axis of symmetry) 2.

Absolute Value Functions - Algebra 2

Examples of How to Solve Absolute Value Equations.

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Example 1: Solve the absolute value equation. $|x| = -5$. The absolute value of any number is either positive or zero. But this equation suggests that there is a number that its absolute value is negative.

Solving Absolute Value Equations - ChiliMath

This topic covers: - Solving absolute value equations - Graphing absolute value functions - Solving absolute value inequalities Our mission is to provide a free, world-class education to anyone, anywhere.

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