

absolute values and the pdf

Its definition and some of its properties are given below. Absolute Value Function The absolute value of a real number x , $|x|$, is $|x| = \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}$ The graph of the absolute value function is shown below. Example 1 $|2| = 2$; $|-2| = 2$ The absolute value function is used to measure the distance between two numbers.

The Absolute Value Function, and its Properties

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Absolute Value Equations - Kuta Software LLC

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Solving absolute value equations worksheet pdf

Because two numbers with the same absolute value are either equal or differ in sign, the given equation will be satisfied if either $3x + 4 = 5x + 4$ or $3x + 4 = -(5x + 4)$. Solving the first equation yields $x = 0$ and solving the second yields $x = -1$. ; thus, the given equation has the solutions $x = 0$ and $x = -1$.

ABSOLUTE VALUE - Eaton.math.rpi.edu

The concept of absolute value has many uses, but for now you should view the absolute value of a number as its distance from zero. Let's look at the number line: The absolute value of x , denoted " $|x|$ " (and which is read as "the absolute value of x "), is the distance of x from zero.

Learning Absolute Values Centre - Flinders University

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Solving Absolute Value Equations - Kuta Software LLC

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 possible answer. This is because what is in the absolute value can be either negative or positive and we must account for both possibilities when solving equations.

Solving Linear Equations - Absolute Value

The absolute value of something will always be greater than a negative number. If the absolute value is less than or less than or equal to a positive number, the problem can be approached two ways. Either way, the solution will be written as an intersection.

Solving Absolute Value Equations and Inequalities

2.6 Absolute Value Equations and Inequalities (2-53) 105 EXAMPLE 2 Absolute value equal to zero Solve $2(x - 6) = 0$. Solution Since 0 is the only number whose absolute value is 0, the expression within the absolute value bars must be 0. $2(x - 6) = 0$ Equivalent equation $2x - 12 = 0$ $2x - 12 + 12 = 0 + 12$ $2x = 12$ $\frac{2x}{2} = \frac{12}{2}$ The solution set is $\{6\}$.

2.6 ABSOLUTE VALUE EQUATIONS AND INEQUALITIES

1.7 Solving Absolute Value Equations and Inequalities 53 1.What is the absolute value of a number? 2.The absolute value of a number cannot be negative. How, then, can the absolute value of a be \hat{A}^0a ? 3.Give an example of the absolute value of a number. How many other numbers have this absolute value? State the number or numbers.

1.7 Solving Absolute Value Equations and Inequalities

Inequalities - Absolute Value Inequalities Objective: Solve, graph and give interval notation for the solution to inequalities with absolute values. When an inequality has an absolute value we will have to remove the absolute value in order to graph the solution or give interval notation. The way we remove

Inequalities - Absolute Value Inequalities

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COPYING PROHIBITED LLEVADAâ€™S ALGEBRA 1 4.2 Absolute Value 71 Section 4.2 Absolute Values. A value becomes absolute if we decide to disregard the opposite (negative) nature of numbers.

Section 4.2 Absolute Values - ALGEBRA ONE

Absolute Value Equations Worksheet 2 PDF View Answers. Absolute Value Equations Worksheet 3 - Here is a 9 problem worksheet where you will have the chance to solve some absolute value equations all by yourself. You will split each absolute value equation into two separate equations, then solve them to find your two solutions.

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