

Free reading 2 8 solving absolute value equations and inequalities (Download Only)

to solve absolute value equations find x values that make the expression inside the absolute value positive or negative the constant to graph absolute value functions plot two lines for the positive and negative cases that meet at the expression's zero solve absolute value equations quickly and easily with these simple tips and tricks learn how to separate components and remember key points when solving absolute value equations absolute value means how far a number is from zero 6 is 6 away from zero and -6 is also 6 away from zero so the absolute value of 6 is 6 and the absolute value of -6 is also 6 absolute value symbol to show we want the absolute value we put marks either side called bars like these examples to solve an absolute value equation such as $|x - p| = q$ replace it with the two equations $x - p = q$ and $x - p = -q$ and then solve each as usual absolute value equations can have up to two solutions how to solve an absolute value equation how to solve an absolute value function how to find both solutions to an absolute value equation why is absolute value always positive this complete guide to solving absolute value equations includes several examples a step by step tutorial and an animated video tutorial absolute value the absolute value of a number is its distance from zero on the number line the absolute value of a number n is written as $|n|$ and $|n| \geq 0$ for all numbers absolute values are always greater than or equal to zero in this section we will give a geometric as well as a mathematical definition of absolute value we will then proceed to solve equations that involve an absolute value we will also work an example that involved two absolute values methodology to solve absolute value equations the techniques used to solve absolute value equations and when to use which one take an example to describe the following methodology 1 understanding absolute value positive negative case or graph approach 2 determining possible solutions 3 verifying solutions technique squaring both sides this algebra video tutorial provides a basic introduction into absolute value equations it explains how to solve absolute value equations the easy way it solving $|x - a| = b$ we will now discuss the solutions of the equation $|x - a| = b$ on a number line there are three distinct cases to discuss each of which depends upon the value and sign of the number b case 1 $b < 0$ if $b < 0$ then the graph of $y = |x - a| + b$ is a horizontal line that lies strictly below the x axis as shown in figure pageindex 2 a absolute value means only how far a number is from zero 6 is 6 away from zero and -6 is also 6 away from zero so the absolute value of 6 is 6 and the absolute value of -6 is also 6 more examples the absolute value of 9 is 9 the absolute value of -3 is 3 the absolute value of 0 is 0 the absolute value of 156 is 156 solve an absolute value equation using the following steps get the absolute value expression by itself set up two equations and solve them separately free absolute value equation calculator solve absolute value equations with all the steps type in any equation to get the solution steps and graph how to solve absolute value equations by hand and how to find an absolute value equation from a graph once you're done here take one step further in your mathematical journey and check out our absolute value inequalities calculator what are absolute value equalities let's briefly recall what the absolute value is shall we the absolute value or modulus $|x|$ of a real number x is the non negative value of x without regard to its sign namely $|x| = x$ for a positive x $|x| = -x$ for a negative x in which case x is positive and $|x| = 0$ if $x = 0$ now that you know what absolute value is we can talk about how to write it and operate with it in mathematical terms 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 your solutions are valid write out the final solution or graph it as needed

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solve absolute value equations quickly and easily with these simple tips and tricks learn how to separate components and remember key points when solving absolute value equations

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absolute value the absolute value of a number is its distance from zero on the number line the absolute value of a number n is written as $|n|$ and $|n| \geq 0$ for all numbers absolute values are always greater than or equal to zero

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in this section we will give a geometric as well as a mathematical definition of absolute value we will then proceed to solve equations that involve an absolute value we will also work an example that involved two absolute values

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methodology to solve absolute value equations the techniques used to solve absolute value equations and when to use which one take an example to describe the following methodology 1 understanding absolute value positive negative case or graph approach 2 determining possible solutions 3 verifying solutions technique squaring both sides

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this algebra video tutorial provides a basic introduction into absolute value equations it explains how to solve absolute value equations the easy way it

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solving $x = a$ we will now discuss the solutions of the equation $x = a$ a number there are three distinct cases to discuss each of which depends upon the value and sign of the number a case 1 $a > 0$ if $a > 0$ then the graph of $y = a$ is a horizontal line that lies strictly above the x axis as shown in figure pageindex 2 a

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absolute value means only how far a number is from zero 6 is 6 away from zero and -6 is also 6 away from zero so the absolute value of 6 is 6 and the absolute value of -6 is also 6 more examples the absolute value of 9 is 9 the absolute value of 3 is 3 the absolute value of 0 is 0 the absolute value of -156 is 156

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solve an absolute value equation using the following steps get the absolute value expression by itself set up two equations and solve them separately

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how to solve absolute value equations by hand and how to find an absolute value equation from a graph once you re done here take one step further in your mathematical journey and check out our absolute value inequalities calculator what are absolute value equalities let s briefly recall what the absolute value is shall we

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the absolute value or modulus x of a real number x is the non negative value of x without regard to its sign namely x for a positive x $-x$ for a negative x in which case x is positive and 0 0 now that you know what absolute value is we can talk about how to write it and operate with it in mathematical terms

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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

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