

Free download 2 8 solving absolute value equations and inequalities Full PDF

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 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 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 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 this topic covers solving absolute value equations graphing absolute value functions solving absolute value inequalities to solve an absolute value equation such as $|x - p| = a$ replace it with the two equations $x - p = a$ and $x - p = -a$ and then solve each as usual absolute value equations can have up to two solutions this algebra video tutorial provides a basic introduction into absolute value equations it explains how to solve absolute value equations the easy way it contains plenty of examples and 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 to solve an absolute value equation we first isolate the absolute value expression using the same procedures we used to solve linear equations

once we isolate the absolute value expression we rewrite it as the two equivalent equations 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 page index 2 a solve an absolute value equation using the following steps get the absolute value expression by itself set up two equations and solve them separately 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 solve absolute value equations practice khan academy google classroom what are the solutions of the following equation $3x + 5 = 17$ $x + 5 = 8$ choose 1 answer $x = 5$ or $x = 4$ $5x + 7 = 10$ or $x + 3 = 5$ $5x + 7 = 10$ or $x + 3 = 5$ $5x + 7 = 10$ or $x + 3 = 5$ free absolute value equation calculator solve absolute value equations with all the steps type in any equation to get the solution steps and graph in this absolute value calculator we provide all of the necessary information about the absolute value function and its inequalities and obviously we help you calculate the absolute value of any number to help you understand better what an absolute value is we have included some absolute value graphs and a few practical examples of 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 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 example 1 solve the absolute equation by cases latex left $3x + 2$ right $x + 2$ right 12 latex let's write each

absolute value expression in piecewise form the absolute value of 3 is 3 and the absolute value of -3 is 3 thus opposite integers have the same absolute value mathematicians use the symbol for absolute value let's look at some examples example 1 find the absolute value of 3 3 7 5 9 8 4 4 you may refer to the number line below solution this absolute value equation calculator will help you to solve equations that involve the absolute value of a linear expression it shows intermediate calculations and graphs the solutions

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