

Free pdf Absolute value equations and inequalities pacific (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 the graph of the absolute value function $f(x) = |x|$ it is important to note that the equation of the left hand branch of the v is $y = -x$ typical points on this branch are $(-1, 1)$, $(-2, 2)$, $(-3, 3)$ etc it is equally important to note that the right hand branch of the v has equation $y = x$ 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 equations can have up to two solutions to solve an absolute value inequality involving less than such as $x < p$ replace it with the compound inequality $p < x < p$ and then solve as usual useful properties here are some properties of absolute values that can be useful a $|a|$ always that makes sense a can never be less than zero a a^2 squaring a makes it positive or zero for a as a real number then taking the square root will undo the squaring but leave it positive or zero a $|a| < b$ a $|a| > b$ learning target success criteria write and solve equations involving absolute value i can write the two linear equations related to a given absolute value equation i can solve equations involving one or two absolute values i can identify special solutions of absolute value equations solving an absolute value equation explore it solve absolute value equations isolate the absolute value expression write the equivalent equations solve each equation check each solution start practicing and saving your progress now khanacademy org math algebra home alg absolute value this free textbook is an openstax resource written to increase student access to high quality peer reviewed learning materials we will look at equations with absolute value in them in this section and we ll look at inequalities in the next section before solving however we should first have a brief discussion of just what absolute value is the notation for the absolute value of p is left $|p|$ right absolute value equations and inequalities absolute value definition the absolute value of x is defined as $|x|$ where x is called the argument here is a set of practice problems to accompany the absolute value equations section of the solving equations and inequalities chapter of the notes for paul dawkins algebra course at lamar university in the two videos that follow we

show examples of how to solve an absolute value equation that requires you to isolate the absolute value first using mathematical operations solve an absolute value equation using the following steps get the absolute value expression by itself set up two equations and solve them separately equations that have absolute values are known as absolute value equations if instead of an equals sign we have a greater than less than greater than or equal to or less than or equal to sign then we have what is called an absolute value inequality absolute value for linear equations in one variable is given by $|x - a| < b$ or $|x - a| > b$ where a is a real number when we have an equation with absolute value it is important to first isolate the absolute value then remove the absolute value by applying the definition 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 free absolute value inequality calculator solve absolute value inequalities with all the steps type in any inequality to get the solution steps and graph if you're seeing this message it means we're having trouble loading external resources on our website if you're behind a web filter please make sure that the domains kastatic.org and kasandbox.org are unblocked when solving absolute value equations and inequalities you have to consider both the behavior of absolute value and the properties of equality and inequality solving equations containing absolute values

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solve absolute value equations isolate the absolute value expression write the equivalent equations solve each equation check each solution

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we will look at equations with absolute value in them in this section and we ll look at inequalities in the next section before solving however we should first have a brief discussion of just what absolute value is the notation for the absolute value of p is $|p|$

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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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equations that have absolute values are known as absolute value equations if instead of an equals sign we have a greater than less than greater than or equal to or less than or equal to sign then we have what is called an absolute value inequality

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absolute value for linear equations in one variable is given by if $x = a$ then $x = a$ or $x = -a$ where a is a real number when we have an equation with absolute value it is important to first isolate the

absolute value then remove the absolute value by applying the definition

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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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