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solving absolute value equations complete guide mashup math Mar 04 2024 the next step is to ditch the absolute value bars and solve the following equations positive  $|2x - 4| = 2$  and negative  $|2x - 4| = -2$  now you have two solutions  $x = 3$  and  $x = 1$  step three check your answer the final step is to plug both solutions  $x = 3$  and  $x = 1$  into the original equation  $|2x - 4| = 8 - 10$  and verify that each solution checks out and you are

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*4 3 absolute value equations mathematics libretxts* Jan 02 2024 an alternate approach is to consider the fact that the absolute value of  $x$  can never equal  $-3$  the absolute value of a number is always nonnegative either zero or positive hence the equation  $|x| = -3$  has no solutions

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*worked example absolute value equation with two solutions* Oct 31 2023 2 the absolute values besides being the distance from zero act as grouping symbols once you get to the point that you can actually drop the absolute values if there is a number in front that number must be distributed example  $14|x - 7| = 2$  becomes  $14|x - 7| = 2$  and  $14|x - 7| = 2$

**1 2 solving absolute value equations mathematics libretxts** Sep 29 2023 again we will look at our definition of absolute value the absolute value of a number is its distance from zero on the number line for the equation  $|x - 5| = 5$  we saw that both  $5$  and  $-5$  are five units from zero on the number line they are the solutions to the equation  $|x - 5| = 5$  or  $x = 10$  or  $x = 0$

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[3 7 absolute value functions mathematics libretexts](#) May 26 2023 an absolute value equation may have one solution two solutions or no solutions an absolute value inequality is similar to an absolute value equation but takes the form  $a < b$   $a > b$   $a <= b$  or  $a >= b$  it can be solved by determining the boundaries of the solution set and then testing which segments are in the set

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**absolute value calculator** Feb 20 2023 the mathematical symbol for absolute value is  $|x|$  where x would denote whatever number we want the absolute value of for example the absolute value of 3 is written as  $|3|$  while the absolute value of  $-5$  would be written as  $|-5|$  to calculate the absolute value of a number you simply take the sign off of the number one can also think

[2 7 linear inequalities and absolute value inequalities](#) Jan 22 2023 solve the compound inequality  $3 < 2x < 6$  solution the first method is to write two separate inequalities  $3 < 2x$  and  $2x < 6$  we solve them independently  $3 < 2x$  and  $2x < 6$   $1 2 < x < 3$  then we can rewrite the solution as a compound inequality the same way the problem began

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*solving absolute value equations varsity tutors* Nov 19 2022 case 2 the expression inside the absolute value bars is negative example 1 take the expression  $4 < x < 18$  as an example for this to be true either  $4 < x < 18$  or  $4 > x > 18$  you need to solve both equations to get the correct answers to the absolute value equation case 1  $4 < x < 18$

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