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a compound inequality is an inequality that combines two simple inequalities let s take a look at some examples example with or x 3 or x 5 so for example the numbers 0 and 6 are both solutions of the compound inequality but the number 4 is not a solution example with and x 0 and x 4 solution recall that a x b is identical to the statement x a and x b thus we can write the compound inequality 1 3 2x 1 in the form 3 2x 1 and 3 2x 1 solve each inequality independently arranging your work as follows 3 2x 1 and 3 2x 1 2x 4 2x 2 x 2 x 1 identify solutions for compound inequalities in the form a x b including cases with no solution solve absolute value inequalities solve single and multi step inequalities containing absolute values identify cases where there are no solutions to absolute value inequalities a compound inequality is made up of two inequalities connected by the word and or the word or for example the following are compound inequalities x 3 4 and 4x 5 3 2 y 1 0 or y 5 2 method 1 the given compound inequality is 2 2x 3 5 adding 3 on all the sides 2 3 2x 3 3 5 3 1 2x 8 dividing all the sides by 2 1 2 2x 2 8 2 1 2 x 4 hence the direct solution is 1 2 x 4 or the interval 1 2 4 method 2 split the given inequality into two inequalities the solution of an or compound inequality is the set of all latex x latex that satisfy either of the two inequalities or at times satisfies the two at the same time in other words you want a solution that works on at least one inequality solve compound inequalities in the form of or and express the solution graphically and with an interval solve compound inequalities and express solutions to inequalities graphically and with interval notation identify solutions for compound inequalities in the form a x b a x b including cases with no solution identify solutions for compound inequalities in the form a x b a x b including cases with no solution solve absolute value inequalities solve single and multi step inequalities containing absolute values identify cases where there are no solutions to absolute value inequalities introduction many times solutions lie between two quantities rather than continuing endlessly in one direction for example systolic top number blood pressure that is between 120 and 139mm hg is called borderline high blood pressure this can be described using a compound inequality b 139 and b 120 the solution of a compound inequality that consists of two inequalities joined with the word or is the union of the solutions of each inequality unions allow us to create a new set from two that may or may not have elements in common the following example shows how to solve a one step inequality in the or form solving compound inequalities learning outcomes solve compound inequalities or express solutions both graphically and with interval notation solve compound inequalities and express solutions both graphically and with interval notation solve compound inequalities in the form of or how do you solve the compound inequalities to solve compound inequalities solve each inequality separately determine if the answer should be and union of the inequalities or or intersection of the inequalities solve compound inequalities in the form of or as we saw in the last section the solution of a compound inequality that consists of two inequalities joined with the word or is the union of the solutions of each inequality unions allow us to create a new set from two that may or may not have elements in common about transcript sal solves the compound inequality 3y 7 2y and 4y 8 48 created by sal khan and monterey institute for technology and education questions tips thanks want to join the conversation log in sort by top voted manuel 12 years ago if we got that y 7 and y 14 is it correct to state it like this 14 y 7 several inequalities are combined together to form compound inequalities there are three types of compound inequalities which we will investigate in this section and or and tripartite let a and b be sets the union of two sets contains all the elements contained in either set or both sets processing math 55 compound inequalities learning objectives solve compound inequalities in the form of or and express the solution graphically solve compound inequalities in the form of and and express the solution graphically solve compound inequalities in the form a x b identify cases with no solution introduction a compound inequality consisting of two inequalities joined with the word or has a solution set made up of all real numbers which satisfy the first inequality the second inequality or both unions allow us to create a new set from two that may or may not have elements in common to solve a compound inequality means to find all values of the variable that make the compound inequality a true statement we solve compound inequalities using the same techniques we used to solve linear inequalities we solve each inequality separately and then consider the two solutions

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a compound inequality is an inequality that combines two simple inequalities let s take a look at some examples example with or x 3 or x 5 so for example the numbers 0 and 6 are both solutions of the compound inequality but the number 4 is not a solution example with and x 0 and x 4

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solution recall that a x b is identical to the statement x a and x b thus we can write the compound inequality 1 3 2x 1 in the form 3 2x 1 and 3 2x 1 solve each inequality independently arranging your work as follows 3 2x 1 and 3 2x 1 2x 4 2x 2 x 2 x 1

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identify solutions for compound inequalities in the form a x b including cases with no solution solve absolute value inequalities solve single and multi step inequalities containing absolute values identify cases where there are no solutions to absolute value inequalities

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a compound inequality is made up of two inequalities connected by the word and or the word or for example the following are compound inequalities x 3 4 and 4x 5 3 2 y 1 0 or y 5 2

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method 1 the given compound inequality is 2 2x 3 5 adding 3 on all the sides 2 3 2x 3 3 5 3 1 2x 8 dividing all the sides by 2 1 2 2x 2 8 2 1 2 x 4 hence the direct solution is 1 2 x 4 or the interval 1 2 4 method 2 split the given inequality into two inequalities

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the solution of an or compound inequality is the set of all latex x latex that satisfy either of the two inequalities or at times satisfies the two at the same time in other words you want a solution that works on at least one inequality

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solve compound inequalities in the form of or and express the solution graphically and with an interval solve compound inequalities and express solutions to inequalities graphically and with interval notation identify solutions for compound inequalities in the form a x b a x b including cases with no solution

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identify solutions for compound inequalities in the form a x b a x b including cases with no solution solve absolute value inequalities solve single and multi step inequalities containing absolute values identify cases where there are no solutions to absolute value inequalities

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introduction many times solutions lie between two quantities rather than continuing endlessly in one direction for example systolic top number blood pressure that is between 120 and 139mm hg is called borderline high blood pressure this can be described using a compound inequality b 139 and b 120

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the solution of a compound inequality that consists of two inequalities joined with the word or is the union of the solutions of each inequality unions allow us to create a new set from two that may or may not have elements in common the following example shows how to solve a one step inequality in the or form

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solving compound inequalities learning outcomes solve compound inequalities or express solutions both graphically and with interval notation solve compound inequalities and express solutions both graphically and with interval notation solve compound inequalities in the form of or

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how do you solve the compound inequalities to solve compound inequalities solve each inequality separately determine if the answer should be and union of the inequalities or or intersection of the inequalities

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solve compound inequalities in the form of or as we saw in the last section the solution of a compound inequality that consists of two inequalities joined with the word or is the union of the solutions of each inequality unions allow us to create a new set from two that may or may not have elements in common

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about transcript sal solves the compound inequality 3y 7 2y and 4y 8 48 created by sal khan and monterey institute for technology and education questions tips thanks want to join the conversation log in sort by top voted manuel 12 years ago if we got that y 7 and y 14 is it correct to state it like this 14 y 7

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several inequalities are combined together to form compound inequalities there are three types of compound inequalities which we will investigate in this section and or and tripartite let a and b be sets the union of two sets contains all the elements contained in either set or both sets

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a compound inequality consisting of two inequalities joined with the word or has a solution set made up of all real numbers which satisfy the first inequality the second inequality or both unions allow us to create a new set from two that may or may not have elements in common

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to solve a compound inequality means to find all values of the variable that make the compound inequality a true statement we solve compound inequalities using the same techniques we used to solve linear inequalities we solve each inequality separately and then consider the two solutions

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