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use the properties of equality to solve basic linear equations identify and solve conditional linear equations identities and contradictions clear fractions from equations set up and solve linear equations the solution of a linear equation is defined as the points in which the lines represent the intersection of two linear equations in other words the solution set of the system of linear equations is the set of all possible values to the variables that satisfies the given linear equation solving linear equations means finding the values of all the variables present in the equation this can be done by substitution method elimination method graphical method and the cross multiplication method all these methods are different ways of finding the values of the variables 4 questions practice complete solutions to 2 variable equations 4 questions practice $x$ intercepts and $y$ intercepts learn intro to intercepts $x$ intercept of a line intercepts from an equation intercepts from a table graphing using intercepts old intercepts of lines review $x$ intercepts and $y$ intercepts practice a linear equation is an equation for a straight line these are all linear equations let us look more closely at one example example y $2 x 1$ is a linear equation the graph of $y 2 x 1$ is a straight line when $x$ increases $y$ increases twice as fast so we need $2 x$ when $x$ is 0 y is already 1 so 1 is also needed and so y $2 x 1$ in this section we give a process for solving linear equations including equations with rational expressions and we illustrate the process with several examples in addition we discuss a subtlety involved in solving equations that students often overlook look at two ways to solve systems of linear equations algebraically substitution and elimination look at systems of linear equations graphically to help us understand when systems of linear equations have one solution no solutions or infinitely many solutions we can describe the solution space to a linear system by transforming it into a new linear system through a sequence of scaling interchange and replacement operations we represented a system of linear equations by an augmented matrix to solve linear equations find the value of the variable that makes the equation true use the inverse of the number that multiplies the variable and multiply or divide both sides by it simplify the result to get the variable value check your answer by plugging it back into the equation created by sal khan questions tips thanks learn about linear equations using our free math solver with step by step solutions there are four common methods to solve a system of linear equations graphing substitution elimination and
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