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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

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if given a linear equation of the form $ax + b = c$ then we can solve it in two steps first use the appropriate equality property of addition or subtraction to isolate the variable term next isolate the variable using the equality property of multiplication or division checking the solution in the following examples is left to the reader

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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

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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

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a linear equation is an equation for a straight line these are all linear equations let us look more closely at one example example $y = 2x + 1$ is a linear equation the graph of $y = 2x + 1$ is a straight line when x increases y increases twice as fast so we need $2x$ when x is 0 y is already 1 so 1 is also needed and so $y = 2x + 1$

1 6 linear equations in one variable mathematics libretexts Aug 15 2023

solving linear equations in one variable a linear equation is an equation of a straight line written in one variable the only power of the variable is 1 linear equations in one variable may take the form $ax + b = 0$ and are solved using basic algebraic operations

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what are the 3 solutions to linear equations there are three ways to solve systems of linear equations substitution elimination and graphing how do you find the solution of a linear system first solve one linear equation for y in terms of x then substitute that expression for y in the other linear equation you'll get an equation in x

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solution of linear equations in two variables to solve linear equations in 2 variables there are different methods following are some of them method of substitution cross multiplication method method of elimination we must choose a set of 2 equations to find the values

of 2 variables

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there can be many ways to solve linear equations let us see another example example solve these two equations $x + y = 6$ $3x + y = 2$ the two equations are shown on this graph our task is to find where the two lines cross well we can see where they cross so it is already solved graphically

1 2 finding solutions to systems of linear equations Apr 11 2023

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

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the points where the lines or planes that represent the linear equations cross or meet are known as the solutions of linear equations a system of linear equations solution set is the collection of variable values that represent every possible resolution for example $x + 2y = 7$

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systems of linear equations and their solution explained with pictures examples and a cool interactive applet also a look at the using substitution graphing and elimination methods

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use linear transformations to determine the particular solution and general solution to a system of equations find the kernel of a linear transformation recall the definition of a linear transformation discussed above

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