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many solutions 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 learn about linear equations using our free math solver with step by step solutions 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 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 table of contents for introduction to linear algebra 5th edition 2016 1 introduction to vectors 1 1 vectors and linear combinations 1 2 lengths and dot products 1 3 matrices 2 solving linear equations 2 1 vectors and linear equations 2 2 the idea of elimination 2 3 elimination using matrices the idea is to solve one equation for one of the variables and substitute the result into the other equation after performing this substitution step we are left with a single equation with one variable which can be solved using algebra 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 here is a set of practice problems to accompany the linear equations section of the solving equations and inequalities chapter of the notes for paul dawkins algebra course at lamar university answer the solution is where the equations meet or intersect the red point is the solution of the system how many solutions can systems of linear equations have answer there can be zero solutions 1 solution or infinite solutions each case is explained in detail below free math problem solver answers your linear algebra homework questions with step by step

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