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that the points line up if they do not carefully check your work step 3 draw the line through the points learning objectives graph systems of equations graph a system of two linear equations graph a system of two linear inequalities evaluate ordered pairs as solutions to systems determine whether an ordered pair is a solution to a system of linear equations we can find the solution to a system of equations by graphing the equations let's do this with the following systems of equations $y = 1/2x + 3$ $y = x + 1$ first let's graph the first equation $y = 1/2x + 3$ to solve a system of linear equations by graphing graph the first equation graph the second equation on the same rectangular coordinate system determine whether the lines intersect are parallel or are the same line identify the solution to the system if the lines intersect identify the point of intersection explore math with our beautiful free online graphing calculator graph functions plot points visualize algebraic equations add sliders animate graphs and more how to graph a linear inequality graph the equals line then shade in the correct area follow these steps rearrange the equation so y is on the left and everything else on the right plot the y line make it a solid line for $y \leq$ or $y \geq$ and a dashed line for $y <$ or $y >$ the graph method example 1 what is the solution of the following system of equations $y = x + 1$ $y = 2x + 1$ $y = 2x + 1$ step 1 graph both equations step 2 on the right the graph of the two lines the solution of the system is the point of intersection 1 2 practice problems practice 1 free equations calculator solve linear quadratic polynomial radical exponential and logarithmic equations with all the steps type in any equation to get the solution steps and graph learn how to graph systems of two variable linear inequalities like $y < x + 8$ and $y > 5x$ created by sal khan and monterey institute for technology and education equation solver step by step examples algebra equation solver step 1 enter the equation you want to solve into the editor the equation calculator allows you to take a simple or complex equation and solve by best method possible step 2 click the blue arrow to submit and see the result

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graph an equation inequality or a system example $x y^2 y x^2$ first degree equations and inequalities in two variables the language of mathematics is particularly effective in representing relationships between two or more variables

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let y be equal to the expressions on both sides of the equal sign
step 2 graph the two functions that were created step 3
approximate the points at which the graphs of the functions
intersect

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we can approximate the solutions to any equation by graphing
both sides of the equation and looking for intersection points if we
have a graphing calculator we can get a very good approximation
of the solution

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the key here is that we can approximate solutions to equations
through graphing so here we are told this is the graph of y is equal
to so we have this third degree polynomial right over here use the
graph to answer the following questions

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to solve a system of equations by graphing graph both equations on the same set of axes and find the points at which the graphs intersect those points are the solutions

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we can find the solution to a system of equations by graphing the equations let's do this with the following systems of equations $y = 1$ $2x + 3y = 1$ first let's graph the first equation $y = 1$ $2x + 3$

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to solve a system of linear equations by graphing graph the first equation graph the second equation on the same rectangular coordinate system determine whether the lines intersect are parallel or are the same line identify the solution to the system if the lines intersect identify the point of intersection

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