Name:

Solving Linear Systems: No Solution and Infinitely Many Solutions

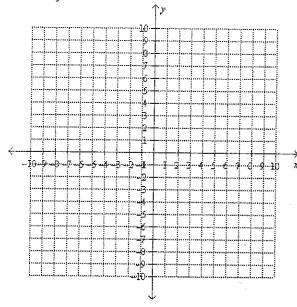
	Example Graph	Example Equation	Equation Characteristics
One Solution			
No Solutions	:		
Infinitely Many Solutions			

ii two lines are parallel, they will have	solutions.
If two lines are the same, they will have	solutions.
If two lines have different slopes, they will have	solutions.

Solve each of the following systems and say whether there is one solution, no solution, or infinitely many solutions. Show your work!

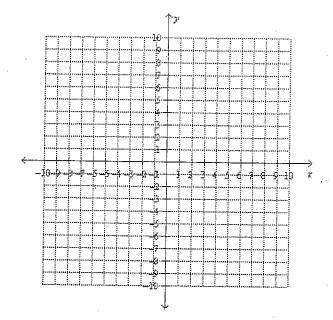
1.
$$y = -2x + 1$$

 $y = -2x - 1$



2.
$$x + 2y = 10$$

 $2x + 2y = 8$

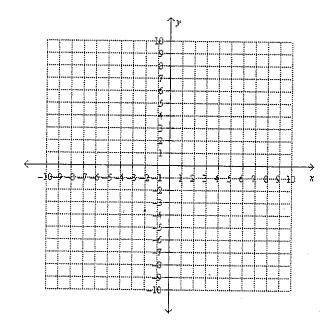


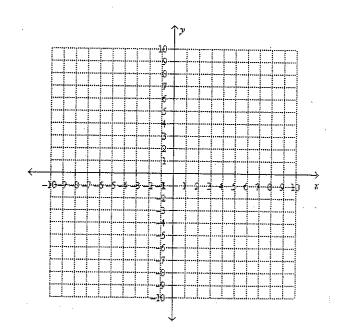
5.
$$2x + 4y = 8$$

 $y = -0.5x + 2$

6.
$$y = 3x + 4$$

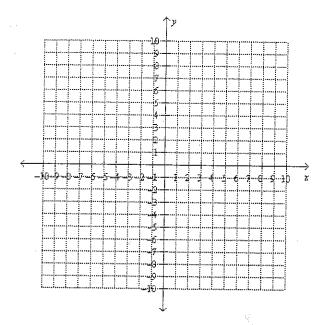
-12x +4y = 16





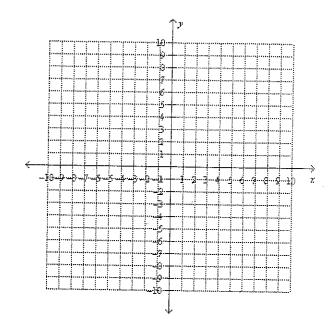
7.
$$y = 2x + 6$$

 $4x - 2y = 8$



8.
$$y = 3x - 1$$

 $y = -2x + 4$



3. How can you tell if a system has no solution WITHOUT GRAPHING?

4. Make up your own linear systems problem where the answer would be "no solution".