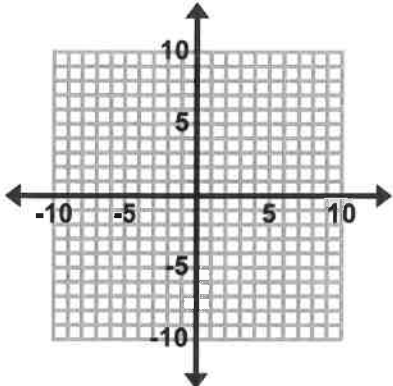
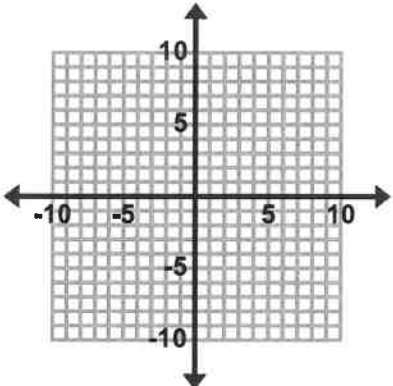
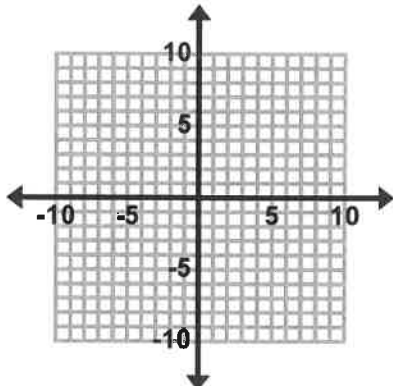



11. In the table below, draw an example of a graph that represents the different solving outcomes of a system of linear equations:

One Solution	No Solution	Infinitely Many Solutions
		

12. Without graphing, determine whether the following systems of linear equations will have one solution, no solution, or infinitely many solutions. 

a. $y = 8x + 2$ and $y = -4x$	b. $y = -\frac{2}{3}x - 5$ and $y + \frac{2}{3}x = 1$
c. $2x + y = 8$ and $y = 2x - 2$	d. $x + y = 5$ and $-2x - 2y = -10$
e. $3x + 2y = 5$ and $3x + 2y = 6$	f. $y = 2x + 5$ and $4x - 2y = -10$

13. One equation in a system of linear equations is $6x + 4y = -12$.
- Write a second equation for the system so that the system has only **one solution**.
 - Write a second equation for the system so that the system has **no solution**.
 - Write a second equation for the system so that the system has **infinitely many solutions**.

3. One equation in a system of linear equations is $y = -2x + 4$.
- Write a second equation for the system so that the system has only **one solution**.
 - Write a second equation for the system so that the system has **no solution**.
 - Write a second equation for the system so that the system has **infinitely many solutions**.
4. At the county fair, you and your little sister play a game called Honey Money. In this game she covers herself in honey and you dig through some sawdust to find hidden money and stick as much of it to her as you can in 30 seconds. The fair directors have hid only \$1 bills and \$5 bills in the sawdust. During the game your little sister counts as you put the bills on her. She doesn't know the difference between \$1 bills and \$5 bills, but she knows that you put 16 bills on her total. You were busy counting up how much money you were going to make, and you came up with a total of \$40. After the activity you put the all the money into a bag and your little sister takes it to show her friends and loses it. The fair directors find a bag of money, but say they can only give it to you if you can tell them how many \$1 bills you had, and how many \$5 bills you had. What will you tell the fair directors so you can get your money back?
- Solve this problem using any method you wish. Show your work in the space below.

- Write your response to the fair directors in a complete sentence on the lines provided.
