

ALEKS® Graphing Quiz 1 #1

Beginning Algebra / Math 100 – Master No Book (Prof. Miller)

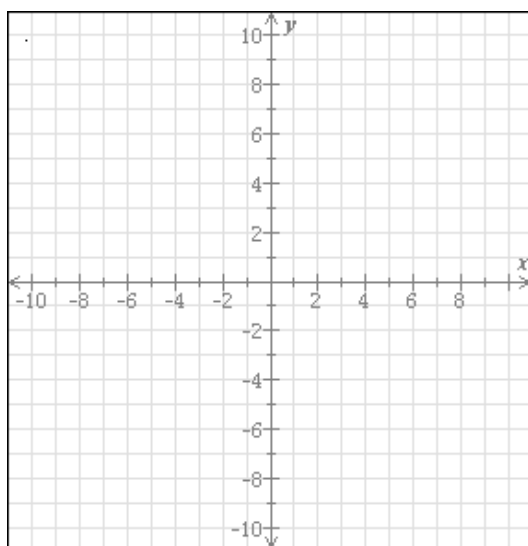
Student Name/ID:

Instructor Note:

Directions: Every problem is worth two points. One point is for trying the problem and showing your work and one point is for getting the correct answer. There are an additional five points for demonstrating the study strategy that is posted on the board and talked about at the beginning of class.

1. Graph the line.

$$y = -\frac{1}{4}x + 1$$



2. The equation of a line is given below.

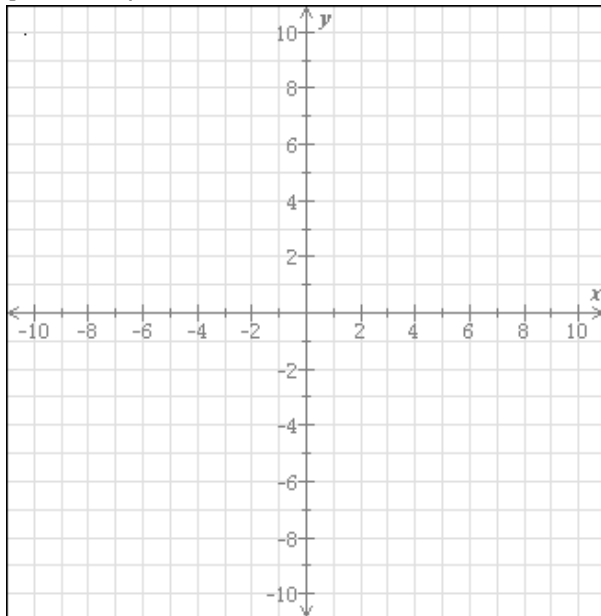
$$-3x - 5y = -15$$

Find the slope and the y -intercept.

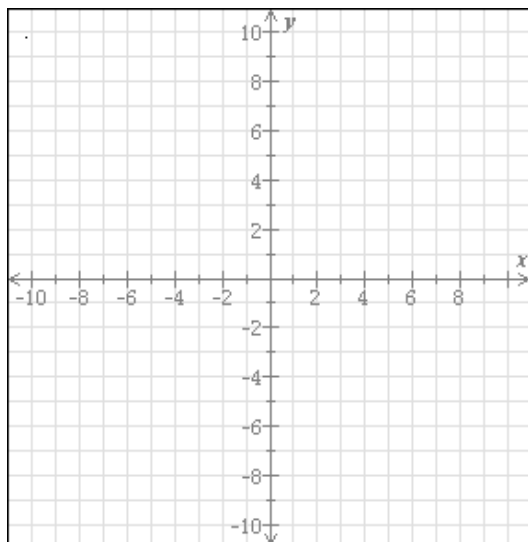
Then use them to graph the line.

slope: _____

y -intercept: _____

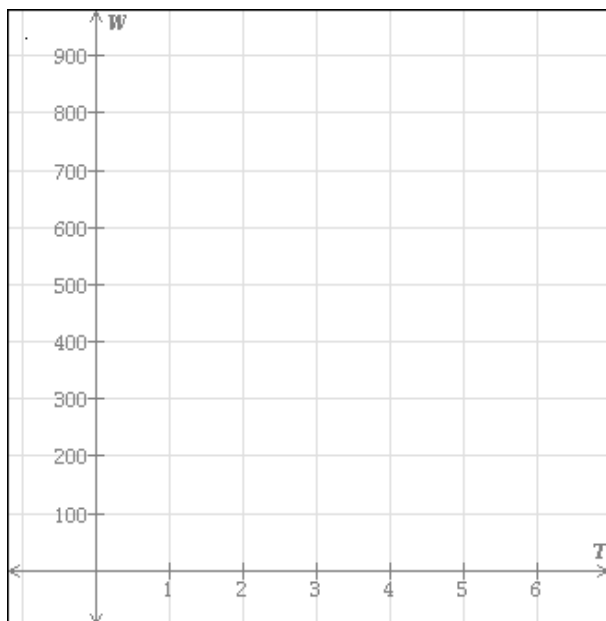


3. Graph the line whose y -intercept is -9 and whose x -intercept is -2

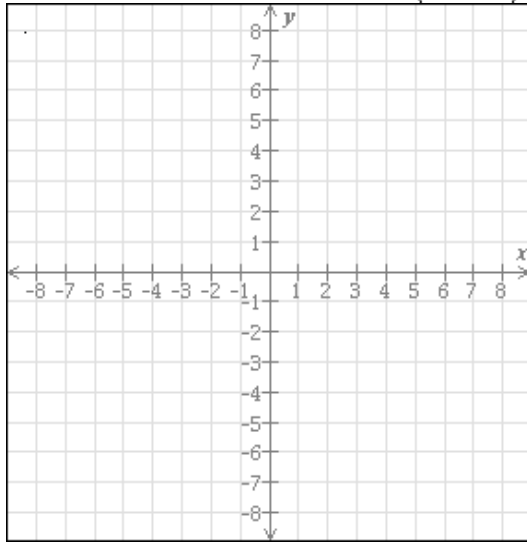


4. Owners of a recreation area are filling a small pond with water. They are adding water at a rate of 35 liters per minute. There are 700 liters in the pond to start.

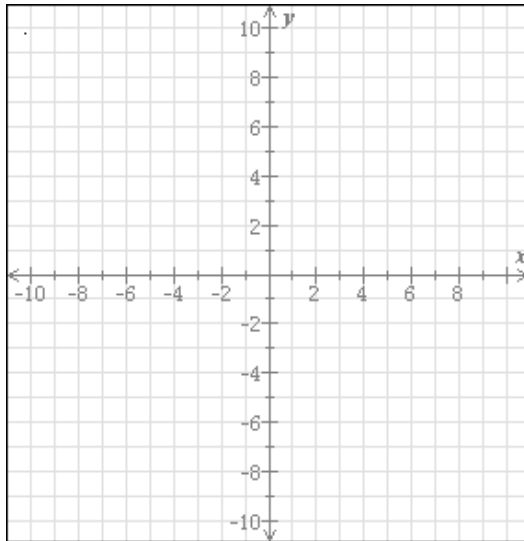
Let W represent the amount of water in the pond (in liters), and let T represent the number of minutes that water has been added. Write an equation relating W to T and then graph your equation using the axes below.



5. Using the pencil, plot the point $(4, -3)$

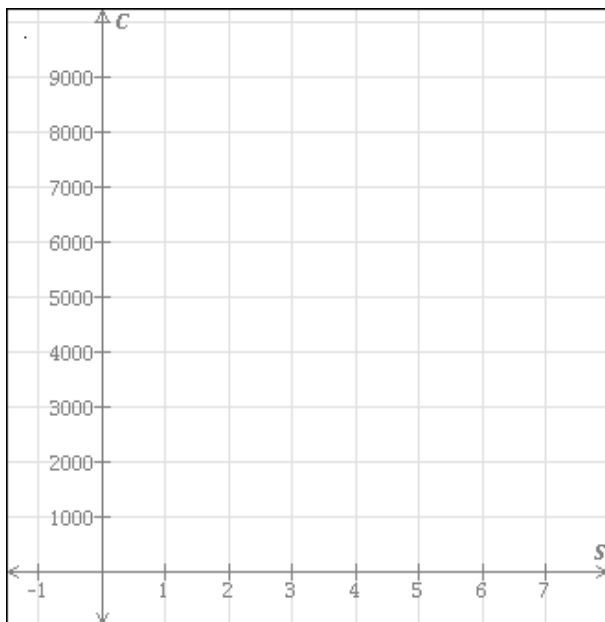


6. Graph the line with slope 3 passing through the point $(2, -1)$

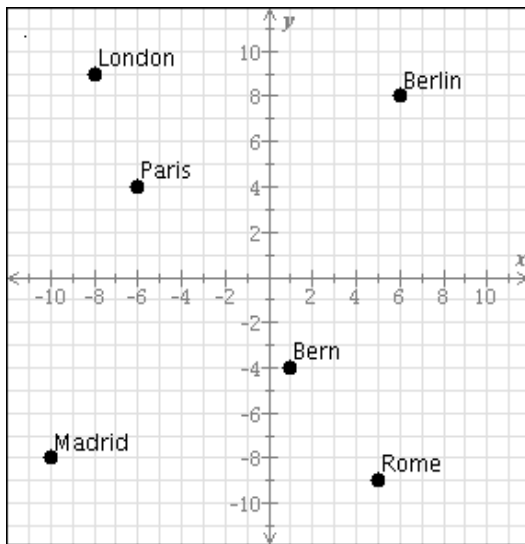


7. The Sugar Sweet Company is going to transport its sugar to market. It will cost \$7250 to rent trucks, and it will cost an additional \$250 for each ton of sugar transported.

Let C represent the total cost (in dollars), and let S represent the amount of sugar (in tons) transported. Write an equation relating C to S and then graph your equation using the axes below.



8. Give the location of Rome as an ordered pair (x, y)



9. The equation of a line is given below.

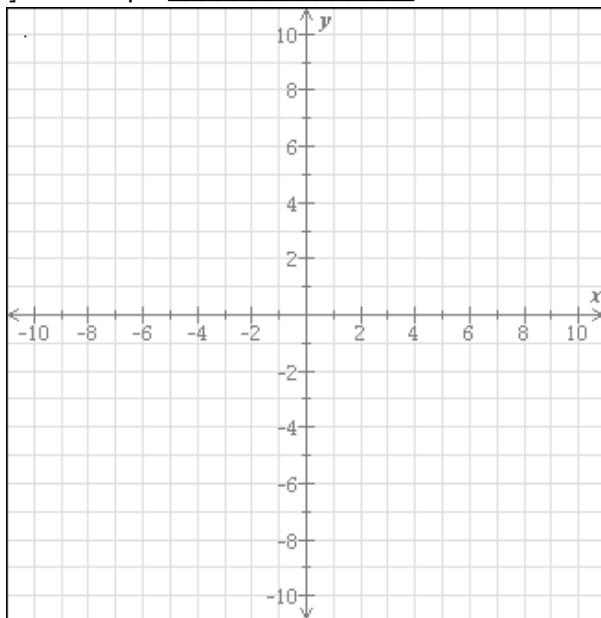
$$4x + 5y = 20$$

Find the slope and the y -intercept.

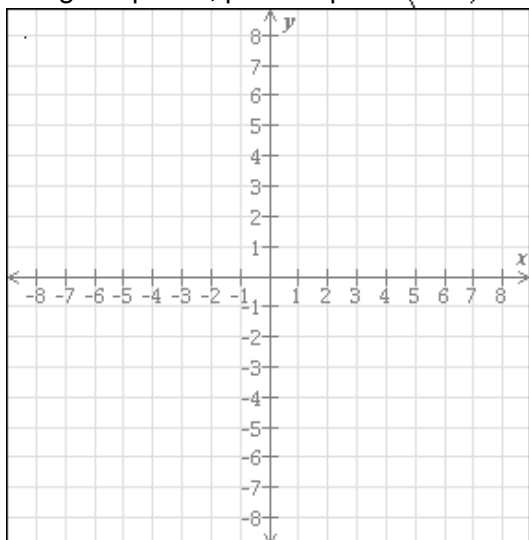
Then use them to graph the line.

slope: _____

y -intercept: _____



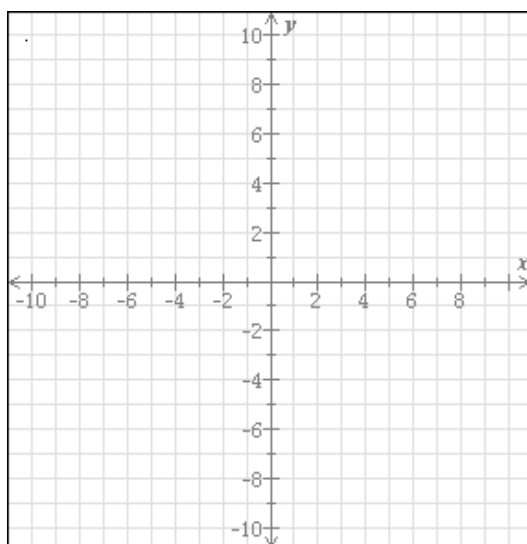
10. Using the pencil, plot the point $(-3, -4)$



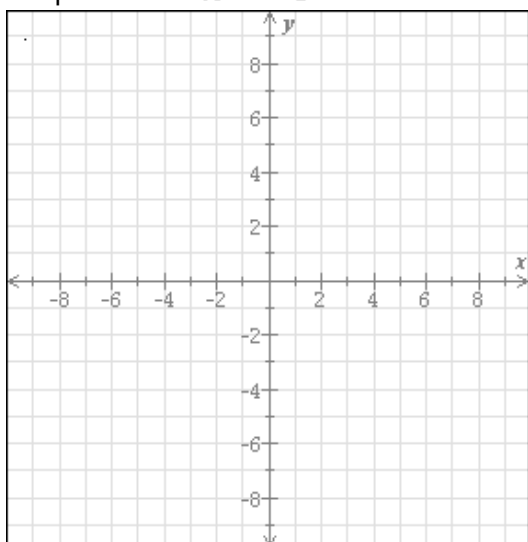
11. Find an ordered pair (x, y) that is a solution to the equation.

$$2x - y = 3$$

12. Graph the line whose x -intercept is -1 and whose y -intercept is 3

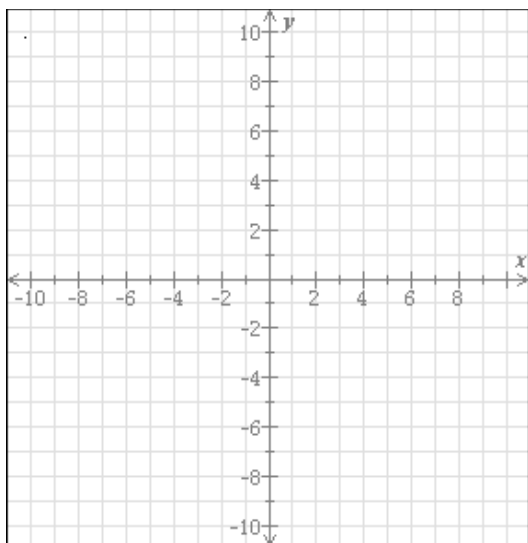


13. Graph the line $x = -1$



14. Graph the line.

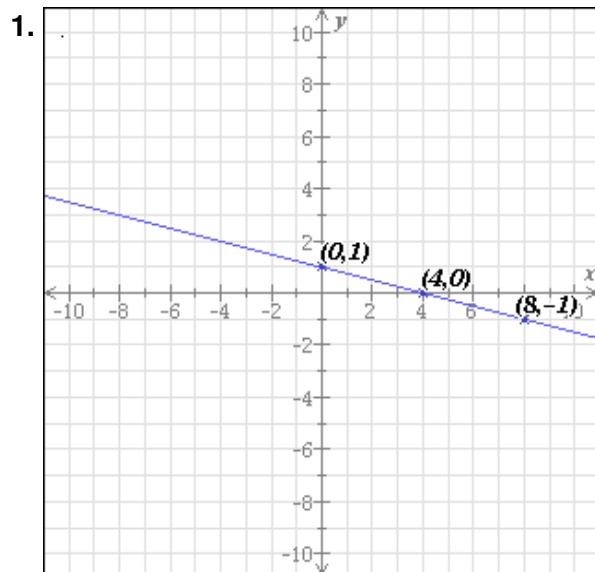
$$y = -\frac{4}{3}x + 8$$



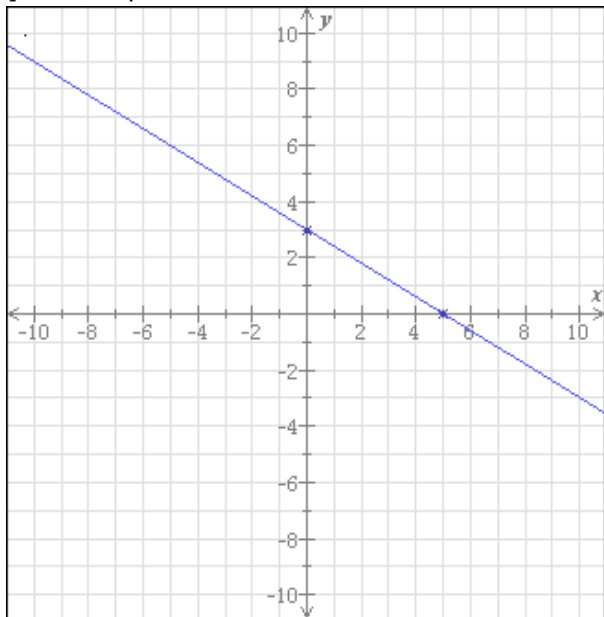
15. Find an ordered pair (x, y) that is a solution to the equation.

$$x - 6y = 6$$

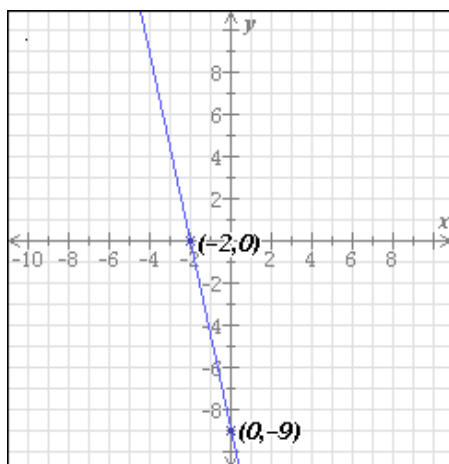
Graphing Quiz 1 #1 Answers for class Beginning Algebra / Math 100 – Master No Book



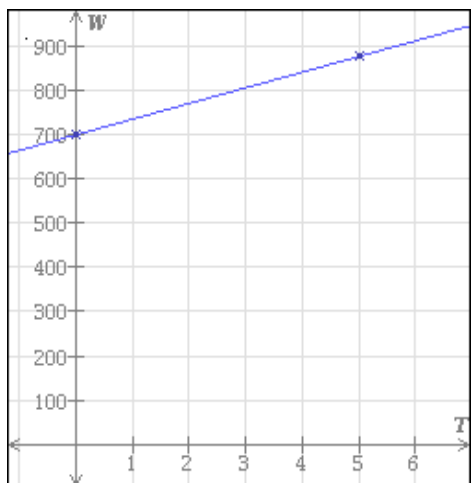
- 2.
- slope: $-\frac{3}{5}$
- y-intercept: 3



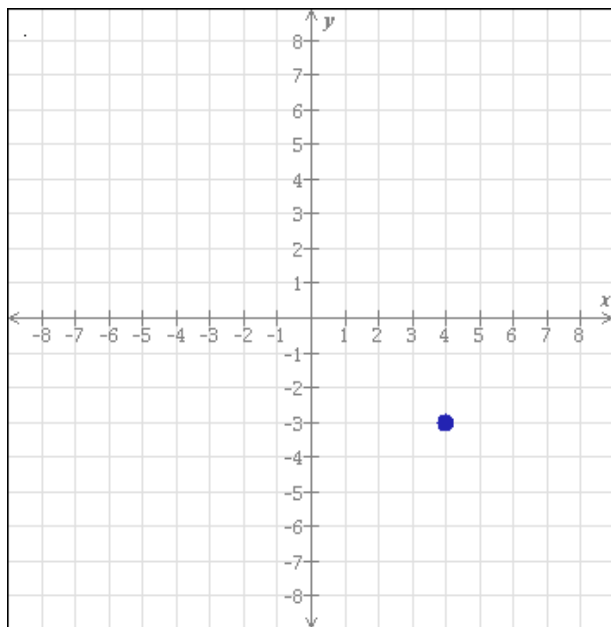
3.



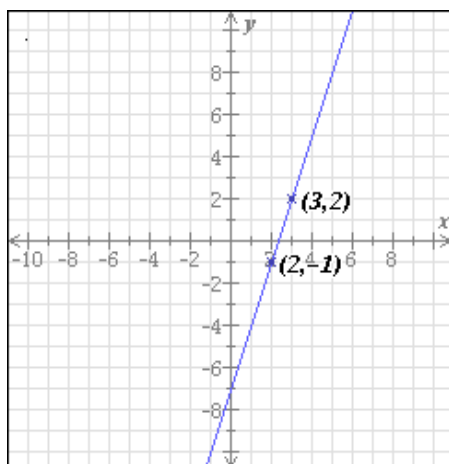
4. $W = 700 + 35T$



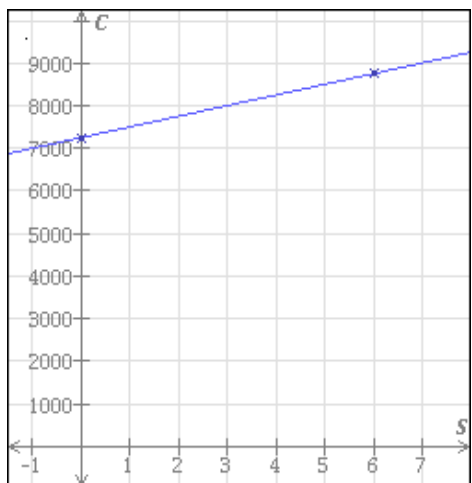
5.



6.



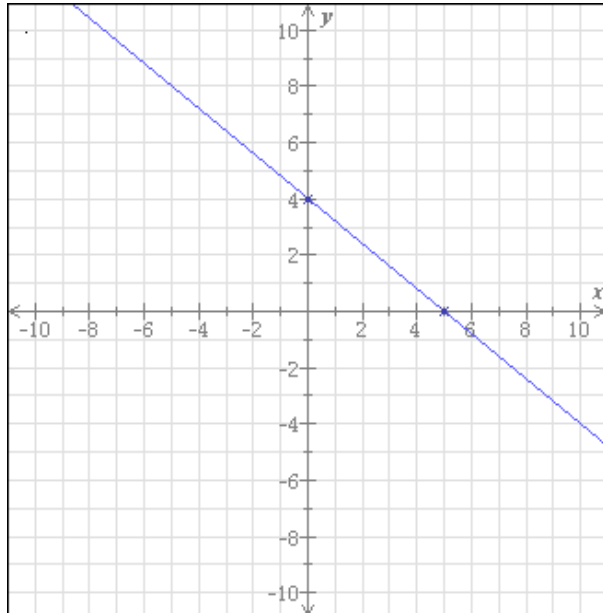
7. $C = 7250 + 250S$



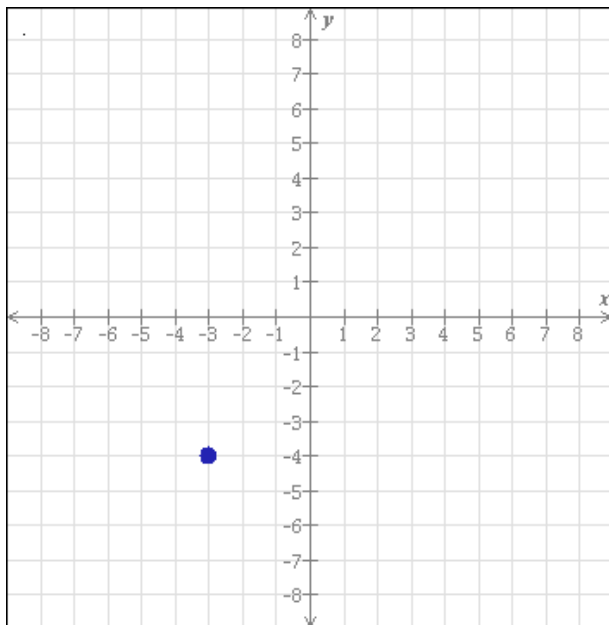
8. $(x, y) = (5, -9)$

9. slope: $-\frac{4}{5}$

y-intercept: 4

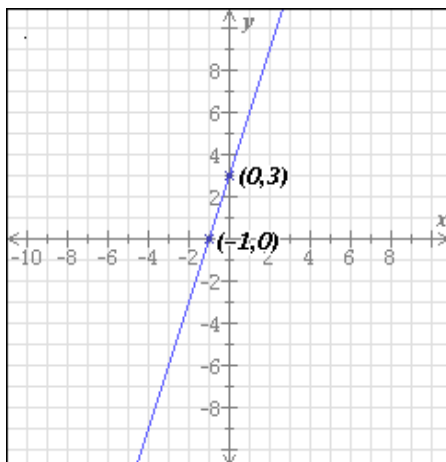


10.

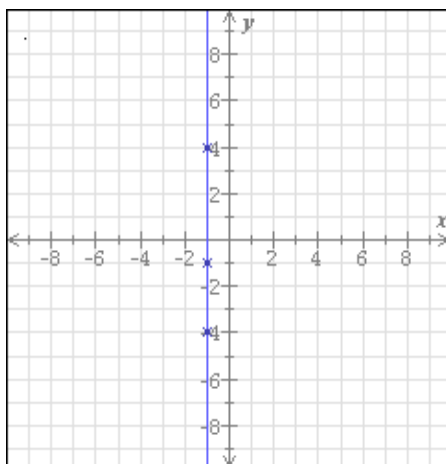


11. One possible answer is $(x, y) = (0, -3)$

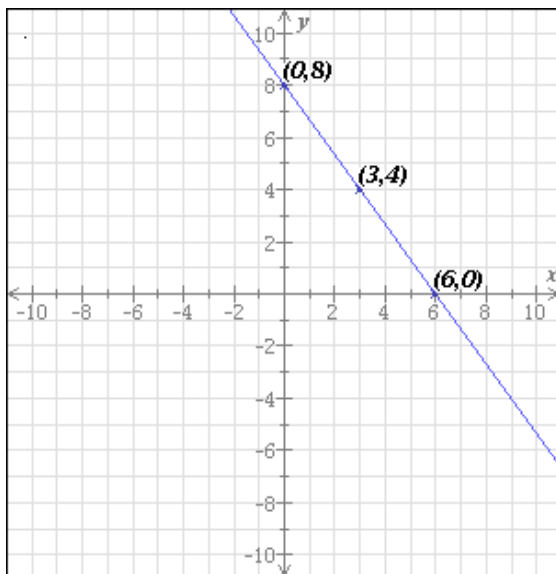
12.



13.



14.



15. One possible answer is $(x, y) = (6, 0)$