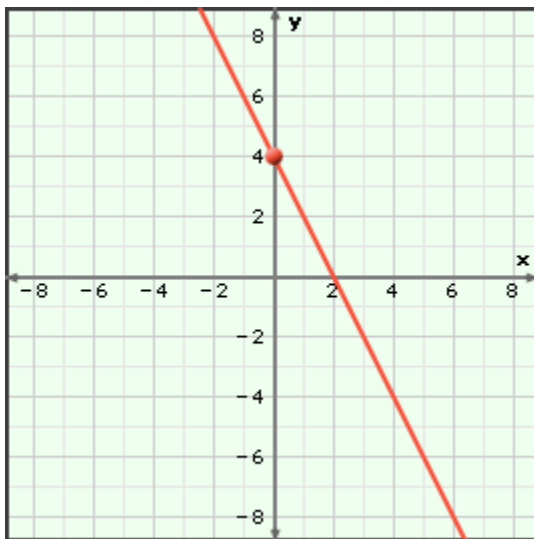


Quiz – Slope-intercept form of a line

1. What is the slope of the line given by the equation $y = -2x - 5$? _____
2. What is the y -intercept of the line given by the equation $y = 0.3x + 2.9$? _____

Directions: Use the following graph to answer questions 3 through 5.



3. What is the slope of the line shown in the given graph?

4. What is the y -intercept of the line shown in the given graph?

5. What is the equation of the line shown, in slope-intercept form?

Directions: Use the data table shown below to answer questions 6 and 7.

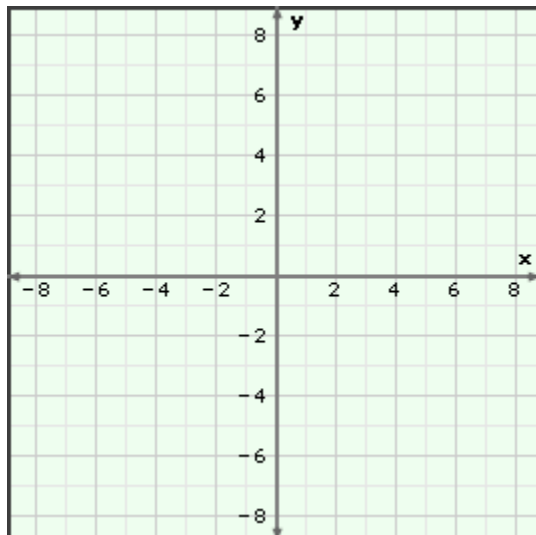
6. The data table to the right shows the coordinates of ten points on a line. What is the equation of the line, in slope-intercept form?

7. Give the coordinates of three other points on this line. Write your answers as ordered pairs.

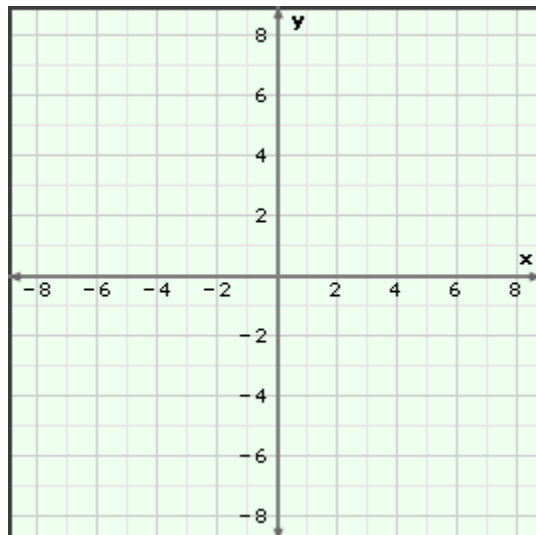
x	y
-5	-9.5
-4	-9
-3	-8.5
-2	-8
-1	-7.5
0	-7
1	-6.5
2	-6
3	-5.5
4	-5
5	-4.5

Directions: Graph the lines given by the equations shown. Label the coordinates of the y -intercept and one other point on the graph.

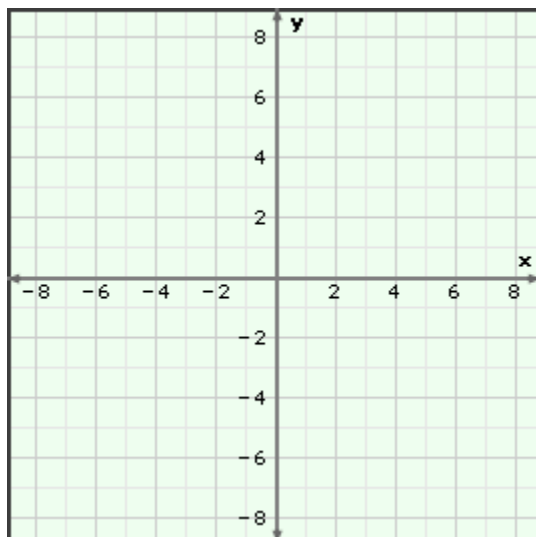
8. $y = -x + 4$



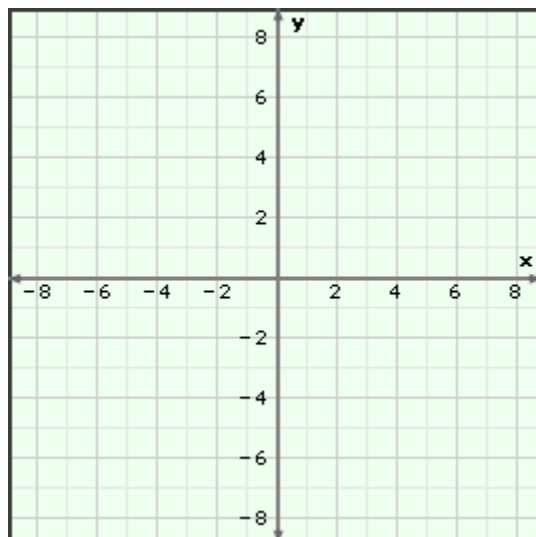
9. $y = 5x - 2$



10. $y = 0.5x - 2.5$



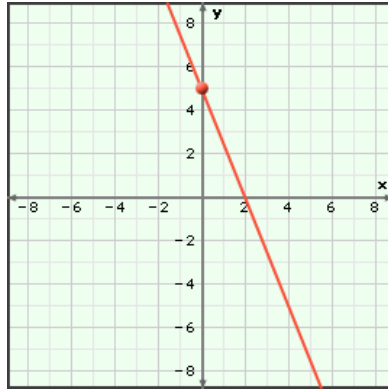
11. $y = 3x + 6$



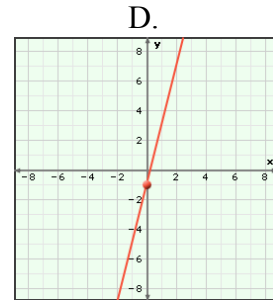
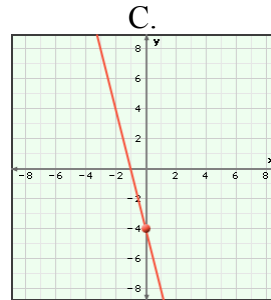
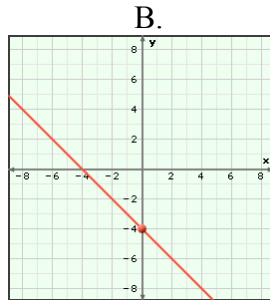
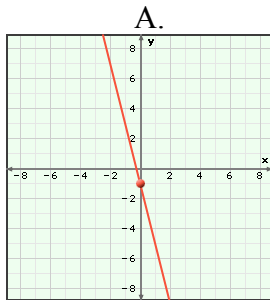
Directions: Write the letter of the best answer choice for each question below.

12. What is the equation, in slope-intercept form, of the line graphed below? _____

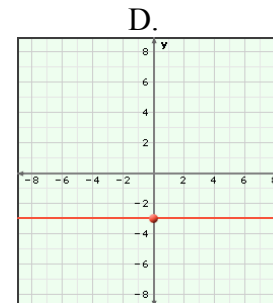
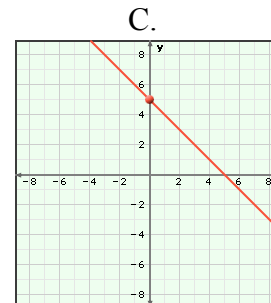
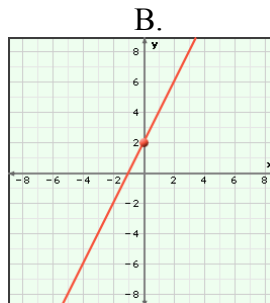
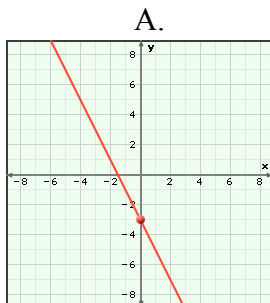
- A. $y = -2.5x + 2$
- B. $y = -5x + 2$
- C. $y = -2x + 5$
- D. $y = -2.5x + 5$



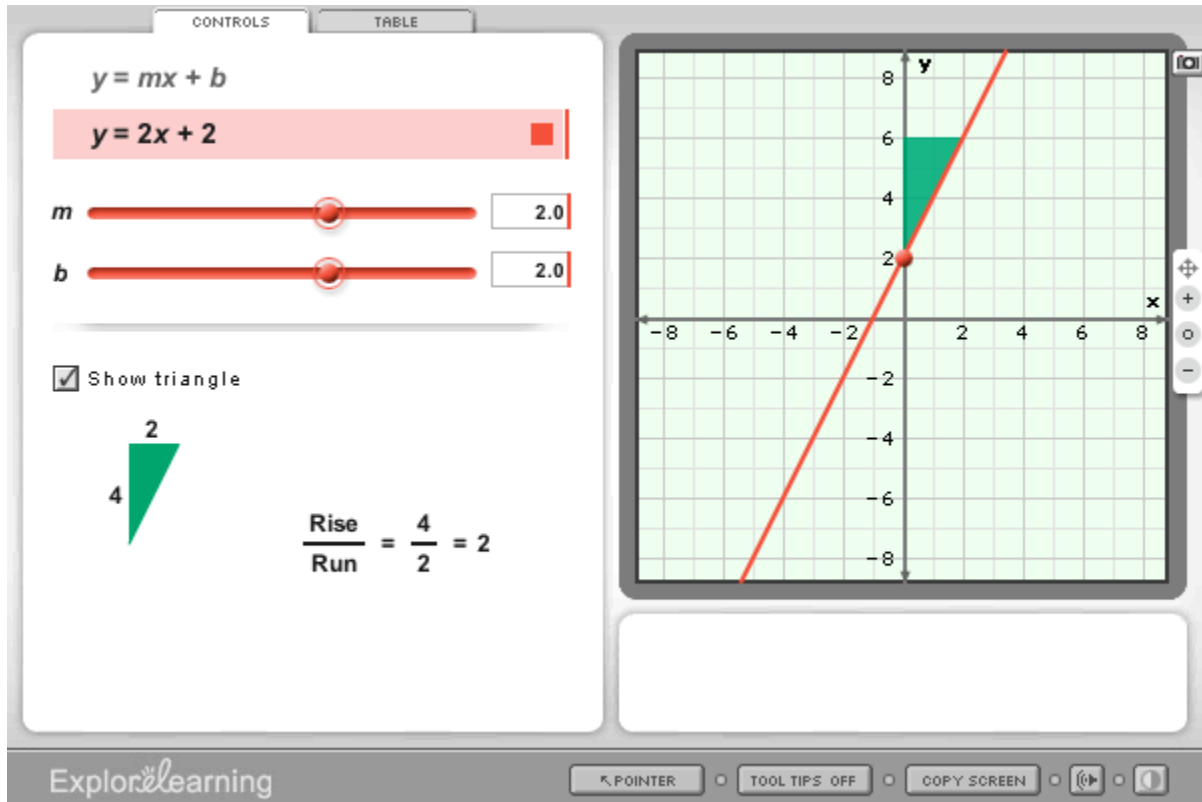
13. What is the graph of $y = -4x - 1$? _____



14. For which of the lines below is the **product** of the slope and the y -intercept negative? _____



Directions: Complete the following sentences to explain how you would use the Gizmo to make the changes described.



15. To make the line steeper, I would _____

16. To move the line lower while keeping its steepness the same, I would _____

17. To make the line horizontal, I would _____
