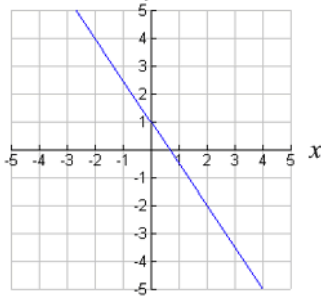
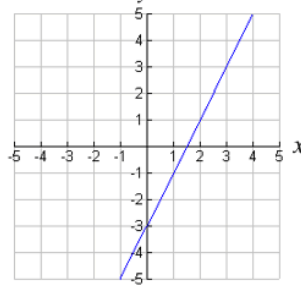


#1- 10, Write the equation of the line in slope-intercept form ($y = mx + b$) in each situation.

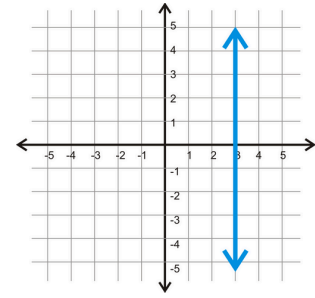
1.



2.



3.



4. slope of 3 and goes through the point (1,5)

5. Slope is $-\frac{1}{2}$ and goes through (-10, 5)

6. Goes through (-4, 5) and (-7, 8)

7. Goes through the (10, 7) and (4, 9)

8. y-intercept is 5 and x - intercept is -1.

9. A professor gives a test and the scores range from 40 - 80 points. He decides to *scale*, or curve, the test in order to make the scores range from 60-90 points. Let x represent the original score and y represent the converted score (so, (40,60) would be a point in the relationship).

a. Write the equation the professor would use to scale the scores

b. If an original score was 45 points, what would the converted score be?

c. If a converted score was 84 points, what was the original score?

10. Graham got dropped off at a spot away from his home to start his cycling practice. He biked at a

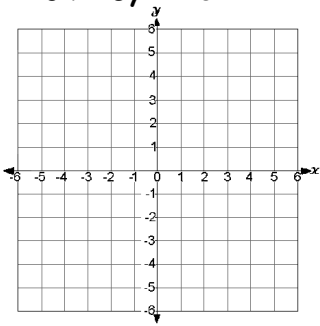
constant speed of 25 miles per hour. After 2.5 hours his GPS showed he was 80 miles from home.

a. Write an equation that represents Graham's distance from home (y) in terms of hours (x)

b. What does the value you found for "b" represent in this situation?

#11-12, review graphing each (because it is good for you!)

11. $3x - 5y = 10$



12. $y > -x + 3$

