P.S. #4.5b - Lines and Linear Equations Review

Name _____ Class _____

Find the slope of the lines that pass through the following points.

1.) (3,-7) and (5,-13)   2.) (-1,5) and (7,1)   3.) (-5,12) and (-13,6)

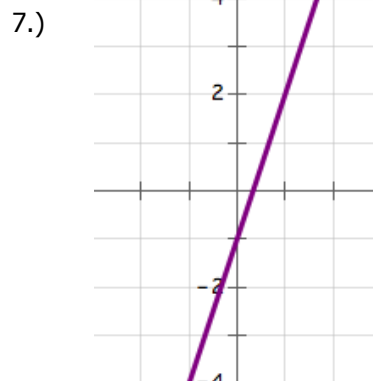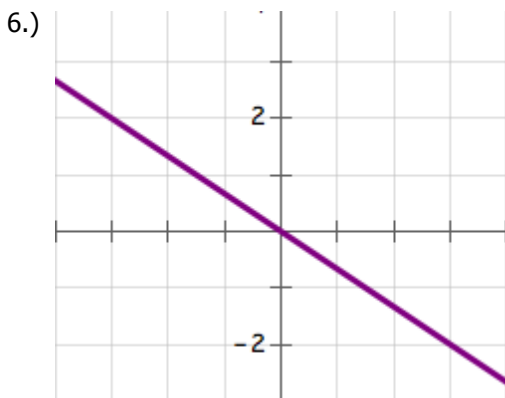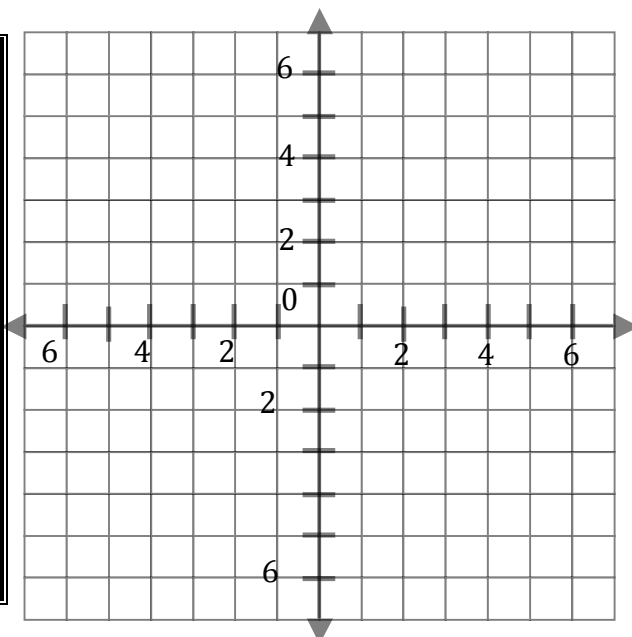Find the rate change in each chart below.

4.)

x	y
-2	-5
-1	-3
0	-1
1	1

5.)

x	y
2	7
4	5
6	3
8	1

Determine the slope of the lines shown in the graphs below.

6.)

7.)

8.) Complete the table of values below. Then, graph the linear function.

$$y - 2x = 3$$

x		y	Coordinate
-2			
-1			
0			
1			

For 9 – 10, write each equation in the form $y = mx + b$. Graph the lines on the graph paper provided.

9.) $x - y = 3$

10.) $2x - 5y = 20$

For 11 – 14, find the equation of each line and graph the lines on the graph paper provided.

11.) Equation of a line that has a slope of 5 and a y-intercept of -1.

12.) Equation of a line that has a slope of -3 and passes through (2,1).

13.) Equation of a line that has a slope of $\frac{2}{3}$ and passes through the point (-3,-3).

14.) Equation of a line that has a slope of ½ passes through (4,4).

Selected Answers:

1.) -3   2.) -½   3.) ¾   4.) 2   5.) -1

12.) y = -3x + 7   13.) $y = \frac{2}{3}x - 1$ 14.) $y = \frac{1}{2}x + 2$

Six blank coordinate grids, each labeled with x and y axes ranging from -6 to 6.