Name _____ Date _____ Class _____

LESSON 5-3

Practice A

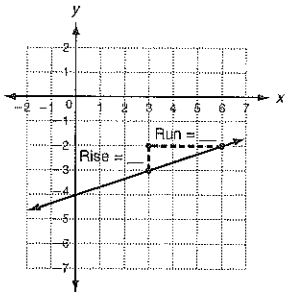
CW Practice

Rate of Change and Slope

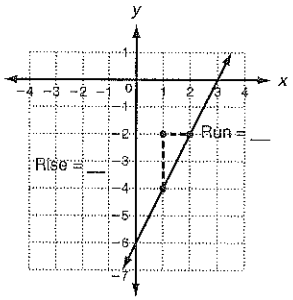
Fill in the blanks to define slope.

1. The _____ is the difference in the *y*-values of two points on a line.
2. The _____ is the difference in the *x*-values of two points on a line.
3. The slope of a line is the ratio of _____ to _____ for any two points on the line.

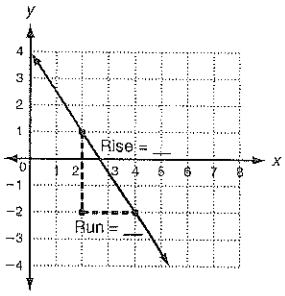
Find the rise and run between each set of points. Then, write the slope of the line.

4. 

slope = _____

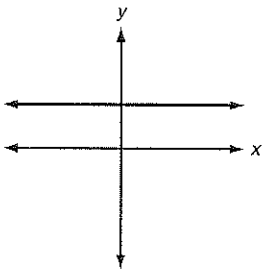
5. 

slope = _____

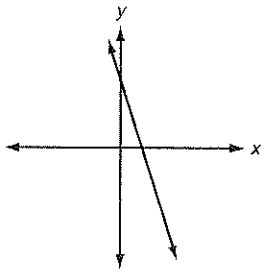
6. 

slope = _____

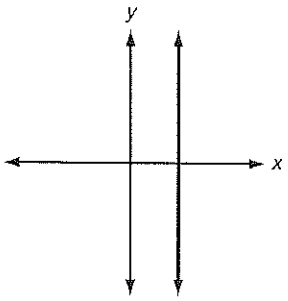
Tell whether the slope of each line is positive, negative, zero, or undefined.

7. 

_____

8. 

_____

9. 

_____

10. The table shows a truck driver's distance from home during one day's deliveries. Find the rate of change for each time interval.

Time (h)	0	1	4	5	8	10
Distance (mi)	0	35	71	82	199	200

Hour 0 to Hour 1: _____ Hour 1 to Hour 4: _____ Hour 4 to Hour 5: _____

Hour 5 to Hour 8: _____ Hour 8 to Hour 10: _____

The rate of change represents the average speed. During which time interval was the driver's average speed the least? _____

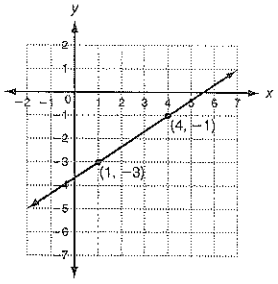
Name _____ Date _____ Class _____

LESSON 5-3

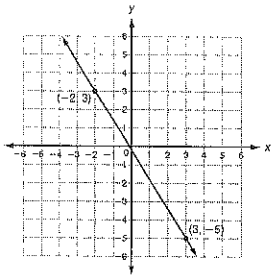
Practice C

Rate of Change and Slope

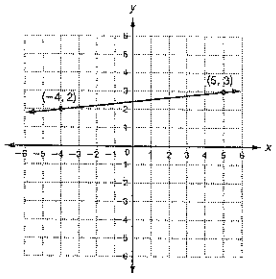
Find the slope of each line.

1. 

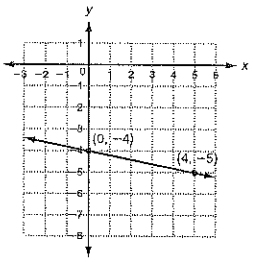
slope = _____

2. 

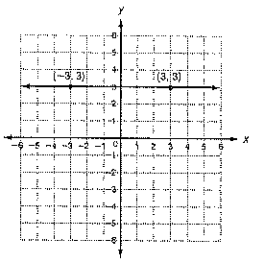
slope = _____

3. 

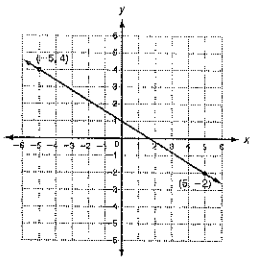
slope = _____

4. 

slope = _____

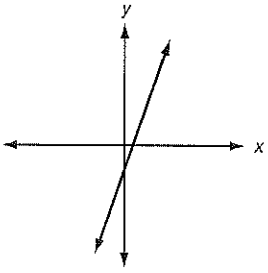
5. 

slope = _____

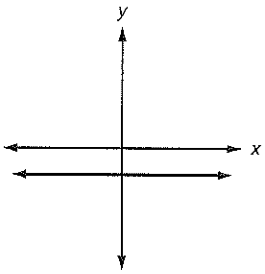
6. 

slope = _____

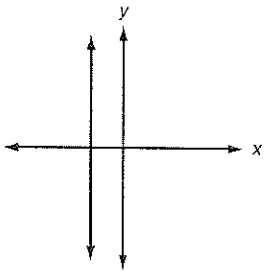
Tell whether the slope of each line is positive, negative, zero, or undefined.

7. 

_____

8. 

_____

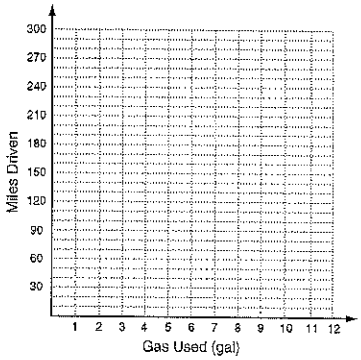
9. 

_____

10. The table shows the distance a car drove on one tank of gasoline.

Miles driven	0	60	150	170	230	260
Gas Used (gal)	0	2	5	6	9	11

a. Graph the data and show the rates of change.



b. The rate of change represents the gas mileage in miles per gallon. Between which two measurements was the car's gas mileage least?

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