Name _____ Date _____ Class _____
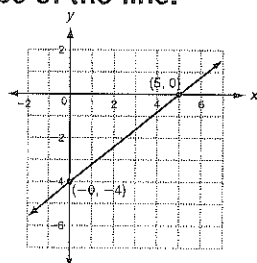
TEKS A.6.A

Practice B *Cw for a grade*

Rate of Change and Slope

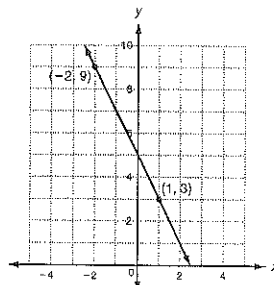Find the rise and run between each set of points. Then, write the
slope of the line.
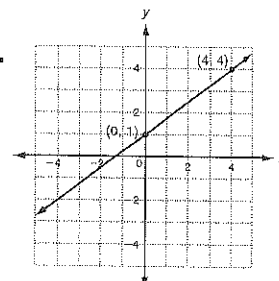
1.

rise = _____ run = _____

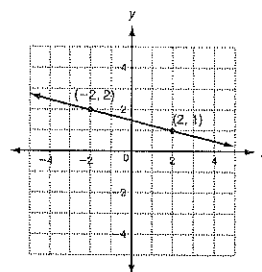slope = _____

2.

rise = _____ run = _____

slope = _____

3.

rise = _____ run = _____

slope = _____

4.

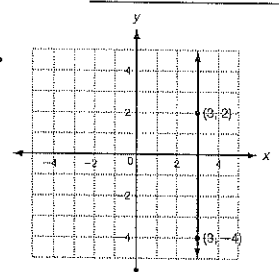rise = _____ run = _____

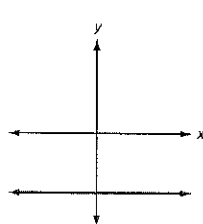slope = _____

5.
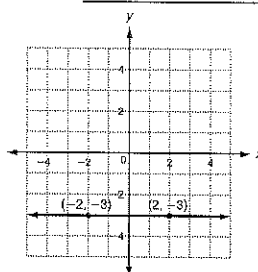
rise = _____ run = _____

slope = _____

6.

rise = _____ run = _____

slope = _____

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

7.

_____

8.

_____
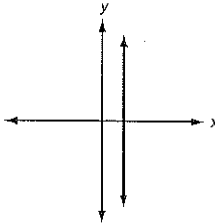
9.

_____

10. The table shows the amount of water in a
pitcher at different times. Graph the data and
show the rates of change. Between which two
hours is the rate of change the greatest? _____

Time (h)	0	1	2	3	4	5	6	7
Amount (oz)	60	50	25	80	65	65	65	50

Holt Algebra 1

Name _____ Date _____ Class _____

TEKS A.6.A

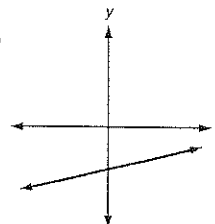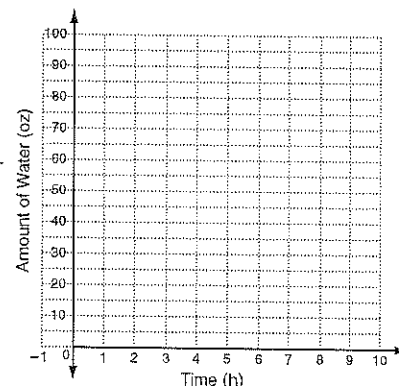**Problem Solving**

5-3 *Rate of Change and Slope*

Write the correct answer.

1. The table shows the cost per pound of Granny Smith apples.

Weight (lb)	1	2	3	4
Cost ($)	1.49	2.98	4.47	5.96

Describe the rate(s) of change shown by the data.

_____

_____

3. The table shows the distance of a courier from her destination.

Time (p.m.)	2:15	2:30	2:45	3:00
Distance (mi)	5.5	5.5	5.0	0.5

What is the rate of change from 2:15 p.m. to 2:30 p.m.? What does this rate of change mean?

_____

_____

2. The table shows Gabe's height on his birthday for five years. Find the rate of change during each time interval.

Age	9	11	12	13	15
Height (in.)	58	59.5	61.5	65	69

_____

_____

When did the greatest rate of change occur? _____

When was the rate of change the least?

_____

During which two time periods were the rates of change the same?

_____

The graph below tracks regular gasoline prices from July 2004 to December 2004. Use the graph to answer questions 5–8. Select the best answer.

4. What is the slope of the line from November to December?

A −4   C −0.04

B −1   D −0.01

5. During which time interval did the cost decrease at the greatest rate?

F Jul to Aug   H Sep to Oct

G Aug to Sep   J Oct to Nov

6. During which time interval was the slope positive?

A Jul to Aug   C Sep to Oct

B Aug to Sep   D Oct to Nov

Regular Gasoline Prices 2004

7. What was the rate of change from October to December?

F −0.05   H 0.025

G −0.025   J 0.05

Holt Algebra 1