

Name _____

6-6B Lesson Master

Questions on SPUR Objectives
See pages 392–395 for objectives.

SKILLS Objective B

In 1–6, write an equation in slope-intercept form of the line through the two given points.

1. (2, 4) and (5, 13)

2. (6, -3) and (22, -11)

3. (-1.5, -0.5) and (-3, 0)

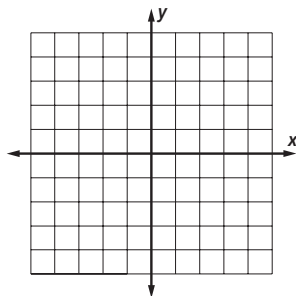
4. (5, 13) and (10, 10)

5. (8, -3) and (-12, 2)

6. $(-\frac{3}{4}, \frac{2}{3})$ and $(-\frac{1}{2}, 1)$

7. Write an equation of the line through (-2, 3) and (4, -1). _____

8. Check your answer to Question 7 by graphing the line.



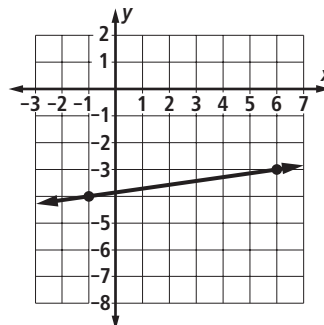
9. Write an equation for the line with x -intercept -4 and y -intercept 5. _____

10. Write an equation for the line that produced the table of values shown below.

X	Y
5	5
10	4
15	3
20	2
25	1
30	0
35	-1

$x=5$

11. Write an equation of the line shown below.



Name _____

6-6B**page 2****USES** Objective F

12. “Black Friday,” the day after Thanksgiving, is characterized by millions of shoppers and billions of dollars in retail sales. Retail sales in 2005 were about \$8.45 billion and in 2006 were about \$8.96 billion.

a. Express the data as two ordered pairs. _____

b. Find the slope of the line through these points. _____

c. Explain what the slope represents in this situation.

d. What was the percent of increase in sales? _____

e. Write an equation for y in terms of x for the relationship. _____

13. The total sales of golf equipment in the United States in 2004 were \$3,198.2 million. In 2005 the total sales were \$3,474.4 million. Assume there is a linear relationship between the number of years y since 2004 and the sales in millions s of golf equipment.

a. Express the data as two ordered pairs. _____

b. Find the slope of the line through these points. _____

c. Explain what the slope represents in this situation.

d. Write an equation for y in terms of s for this relationship. _____

e. Use your equation from Part d to predict the total sales of golf equipment in 2008. _____