6-6A Lesson Master

SKILLS Objective B

In 1–5, write an equation in slope-intercept form of the line through the two given points.

1. (1, 3) and (2, 15)

2. (−4, −8) and (1.5, 8)

3. (3, 0) and (22, −10)

4. (6, 9) and (2, 7)

5. (2, 3) and (−2, 5)

6. Check your answer to Question 5 by graphing the line.

USES Objective F

7. The Blueport Bus Company finds that, if they lower their prices, more people will ride the bus. Right now, they charge $1.25 per ride and average 2,400 customers per day. Analysts feel that there is a linear relationship between the cost $c$ and the number of riders $n$ and that if the cost dropped to $1.00 the number of riders would increase to 2,700.

a. Find an equation that relates the variables $c$ and $n$.

b. Use your answer to Part a to predict the number of riders if the cost of a bus ride were lowered to $0.80.