

Name _____

3-1B Lesson Master

Questions on SPUR Objectives
See Student Edition pages 215–219 for objectives.

SKILLS Objective A

In 1–9, find a. the slope, b. the y-intercept, and c. the x-intercept (if any) of the given line.

- | | | | |
|-------------------------------------|----------|----------|----------|
| 1. $y = \frac{4}{5}x - 1$ | a. _____ | b. _____ | c. _____ |
| 2. $y = 0.2x + 0.5$ | a. _____ | b. _____ | c. _____ |
| 3. $y = -1$ | a. _____ | b. _____ | c. _____ |
| 4. $y = 6x$ | a. _____ | b. _____ | c. _____ |
| 5. $y = 2x + 5$ | a. _____ | b. _____ | c. _____ |
| 6. $y = 4 - 0.1x$ | a. _____ | b. _____ | c. _____ |
| 7. $y = \frac{8}{3}x + \frac{2}{3}$ | a. _____ | b. _____ | c. _____ |
| 8. $y = -6x + 15$ | a. _____ | b. _____ | c. _____ |
| 9. $y = ax + k$ | a. _____ | b. _____ | c. _____ |
10. Find the slope of the line through (3, 5) and (-3, -2). _____

PROPERTIES Objective E

11. As you move one unit to the right on the line, it rises 6 units. What is the slope of the line? _____
12. As you move one unit to the right on the line, it drops 2 units. What is the slope of the line? _____
13. As you move three units to the right on the line, it rises 2 units. What is the slope of the line? _____
14. On a line, a change of one unit horizontally corresponds to a change of $-\frac{2}{5}$ units vertically. What is the slope of the line? _____
15. What are the domain and the range of the function f when $f(x) = 6$?
- Domain: _____ Range: _____

Name _____

3-1B

page 2

USES Objective G

16. A wading pool, filled to a depth of 36 inches, drains at the rate of about 3 inches per hour.

a. Write an equation that gives the depth d of the water after h hours. _____

b. How deep will the water be after 40 minutes? _____

17. Mr. Reyes bought 5 pounds of coffee. On the average, he uses one fifth of a pound a week.

a. Write an equation relating the pounds of coffee c he has left after w weeks. _____

b. During what week will he likely run out of coffee? _____

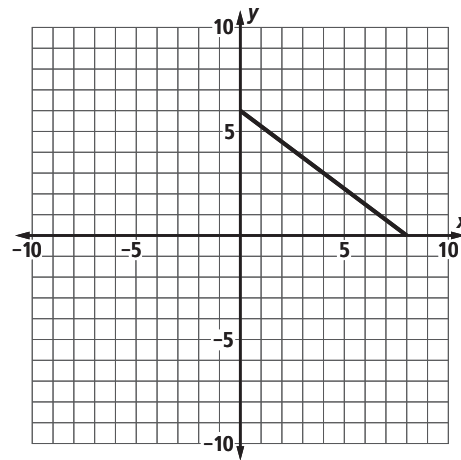
REPRESENTATIONS Objective M

18. Refer to the graph at the right. Max walked y blocks home from the store in x minutes.

a. How long did it take Max to walk home?

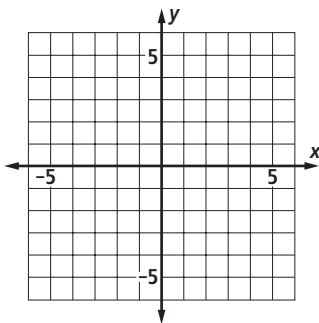
b. Find Max's speed in blocks per minute.

c. Find the total distance Max walked.



In 19 and 20, graph the line described.

19. $y = -x + 4$



20. slope = $\frac{3}{2}$ and y-intercept = -3

