

Name \_\_\_\_\_

# 2-4B Lesson Master

## Questions on SPUR Objectives

See Student Edition pages 143–147 for objectives.

### VOCABULARY

1. **Multiple Choice** Tell which of the following is *not* a definition of slope. \_\_\_\_\_

- |   |   |
|---|---|
| A the rate of change of $y$ with respect to $x$                                       | B $\frac{\text{change in vertical distance}}{\text{change in horizontal distance}}$ |
| C $\frac{\text{change in independent variable}}{\text{change in dependent variable}}$ | D $\frac{\text{rise}}{\text{run}}$  |

### SKILLS Objective C

In 2–4, find the slope of the line through the given points.

2.  $(5, -2), (3, 8)$                       3.  $(-9, 2), (-4, 0)$                       4.  $(12, 8), (6, -3)$

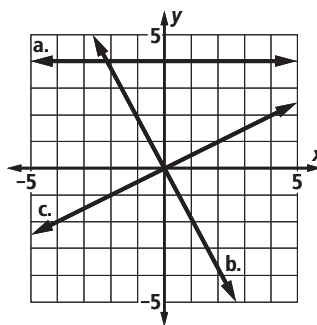
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5. John rents pedal boats to tourists who visit his lakeside business. The cost  $C$  of a rental is given by the equation  $C = 4.5q$ , where  $q$  is the number of quarter-hours the boat is used. Find the rate of change and explain what it means in real life.

\_\_\_\_\_

6. Find the slope of each line graphed at the right.

- a. \_\_\_\_\_  
 b. \_\_\_\_\_  
 c. \_\_\_\_\_



### PROPERTIES Objective E

In 7–9, a. give the slope of the line and b. state in which quadrant(s) the graph exists.

- |              |                       |               |
|--------------|-----------------------|---------------|
| 7. $y = -7x$ | 8. $y = \frac{1}{2}x$ | 9. $y = 0.2x$ |
| a. _____     | a. _____              | a. _____      |
| b. _____     | b. _____              | b. _____      |

Name \_\_\_\_\_

**2-4B**

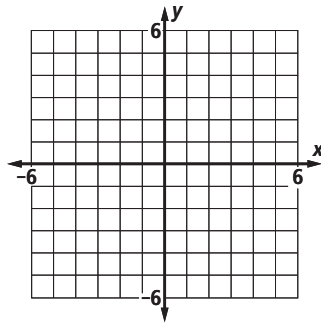
page 2

**REPRESENTATIONS** Objective I

In 10–13, complete the table of values and graph the variation equation.

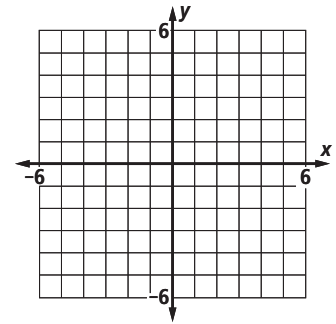
10.  $y = -2x$

x	y
-4	
-2	
0	
2	
4	



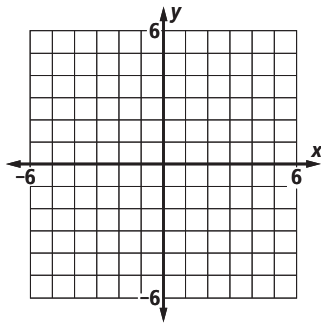
11.  $y = \frac{1}{4}x$

x	y
-4	
-2	
0	
2	
4	



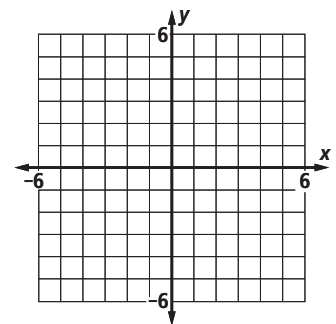
12.  $y = 2.5x$

x	y
-4	
-2	
0	
2	
4	



13.  $y = 3x$

x	y
-4	
-2	
0	
2	
4	



**REPRESENTATIONS** Objective J

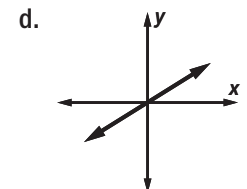
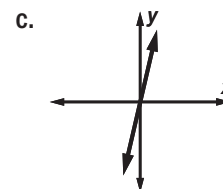
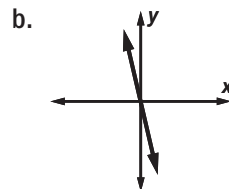
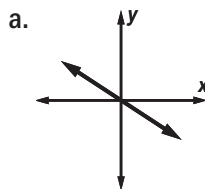
14. **Matching** Match each graph with its equation. The axes have the same scale.

i.  $y = 5x$

ii.  $y = -5x$

iii.  $y = \frac{3}{4}x$

iv.  $y = -\frac{3}{4}x$



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