$\qquad$ Date $\qquad$
$\qquad$

LESSON

## Practice C

## 5-5 Slope-Intercept Form

Write the equation that describes each line in slope-intercept form.

1. slope $=-\frac{3}{2} ; y$-intercept $=1$
2. slope $=-3,(-3,4)$ is on the line.
3. slope $=0 ; y$-intercept $=-8$
4. slope $=-\frac{4}{7} ;(7,-8)$ is on the line.
5. The line that passes through $(1,5)$ and (4, -4). (Hint: Find the slope first.) $\qquad$
Write each equation in slope-intercept form. Then graph the line described by the equation.
6. $y-2=-3 x$
7. $x-y=2$
8. $-2 y=3 x-4$


9. The Johnsons are putting new carpet in their home. Installation is \$300 and the carpeting costs \$4 per square foot. The total price of the job as a function of area is shown in the graph.
a. Write an equation that represents the total price as a function of area. $\qquad$
b. Identify the slope and $y$-intercept and describe their meanings. $\qquad$
$\qquad$
c. Find the total cost if the area is 375 square feet.


