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

## 5-4 <br> Practice <br> Point-Slope Form

Form K

Write an equation in point-slope form of the line that passes through the given point and has the given slope.

1. $(1,3) ; m=5$
2. $(-2,-1) ; m=-3$
3. $(4,-7) ; m=-\frac{1}{4}$

Graph each equation.
4. $y+1=3(x-2)$

5. $y-4=-1(x+2)$

6. $y-3=-2(x+4)$


Graph the line that passes through the given point and has the given slope $m$.
7. $(-1,-3) ; m=2$

8. $(-3,-2) ; m=-4$

9. $(-2,6) ; m=-\frac{1}{2}$

10. Write an equation in each of the following forms that has a slope of $-\frac{2}{3}$
a. point-slope form
b. slope-intercept form
$\qquad$
$\qquad$ Date $\qquad$


Practice (continued)
Form
Point-Slope Form

Write an equation in point-slope form of each line.
11.

12.


Write an equation in point-slope form of the line that passes through the given points. Then write the equation in slope-intercept form.
13. $(5,1),(0,2)$
15. $(-3,-2),(2,3)$
16. $(2,5),(8,-7)$
17. A restaurant's goal is to serve 600 customers in 8 hours and 900 customers in 12 hours. Write an equation in point-slope form that represents the number of customers served per hour. What is the graph of the equation?

