## SKILL PRACTICE

VOCABULARY Identify the form of the equation.

1. $2 x+8 y=-3$
2. $y=-5 x+8$
3. $y+4=2(x-6)$
4. WRITING Explain how to write an equation of a line in standard form when two points on the line are given.

EXAMPLE 1 on p. 311 for Exs. 5-10

## EXAMPLE 2

 on p. 311 for Exs. 11-22EXAMPLE 3 on p. 312
for Exs. 23-28

## EXAMPLE 4

 on p. 312for Exs. 29-36

EQUIVALENT EQUATIONS Write two equations in standard form that are equivalent to the given equation.
5. $x+y=-10$
6. $5 x+10 y=15$
7. $-x+2 y=9$
8. $-9 x-12 y=6$
9. $9 x-3 y=-12$
10. $-2 x+4 y=-5$

WRITING EQUATIONS Write an equation in standard form of the line that passes through the given point and has the given slope $\boldsymbol{m}$ or that passes through the two given points.
11. $(-3,2), m=1$
12. $(4,-1), m=3$
13. $(0,5), m=-2$
14. $(-8,0), m=-4$
15. $(-4,-4), m=-\frac{3}{2}$
16. $(-6,-10), m=\frac{1}{6}$
(17.) $(-8,4),(4,-4)$
18. $(-5,2),(-4,3)$
19. $(0,-1),(-6,-9)$
20. $(3,9),(1,1)$
21. $(10,6),(-12,-5)$
22. $(-6,-2),(-1,-2)$

HORIZONTAL AND VERTICAL LINES Write equations of the horizontal and vertical lines that pass through the given point.
23. $(3,2)$
24. $(-5,-3)$
25. $(-1,3)$
26. $(5,3)$
27. $(-1,4)$
28. $(-6,-2)$
29. ERROR ANALYSIS Describe and correct the error in finding the value of $A$ for the equation $A x-3 y=5$, if the graph of the equation passes through the point $(1,-4)$.

$$
\begin{aligned}
A(-4)-3(1) & =5 \\
A & =-2
\end{aligned}
$$

30. TAKS REASONING The graph of the equation $A x+2 y=-2$ is a line that passes through $(2,-2)$. What is the value of $A$ ?
(A) -1
(B) 1
(C) 2
(D) 3

COMPLETING EQUATIONS Find the missing coefficient in the equation of the line that passes through the given point. Write the completed equation.
31. $A x+3 y=5,(2,-1)$
32. $A x-4 y=-1,(6,1)$
33. $-x+B y=10,(-2,-2)$
34. $8 x+B y=4,(-5,4)$
35. $A x-3 y=-5,(1,0)$
36. $2 x+B y=-4,(-3,7)$
37. ChALLENGE Write an equation in standard form of the line that passes through $(0, a)$ and $(b, 0)$ where $a \neq 0$ and $b \neq 0$.

