ERROR ANALYSIS Describe and correct the error in finding the value of one of the variables in the given linear system.
23. $5 x-7 y=16$
$-x-7 y=8$

$$
\begin{aligned}
5 x-7 y & =16 \\
-x-7 y & =8 \\
\hline 4 x \quad & =24 \\
x & =6
\end{aligned}
$$

24. $3 x-2 y=-3$

$$
\begin{aligned}
3 x-2 y & =-3 \\
-3 x+5 y & =60 \\
\hline 3 y & =57 \\
y & =19
\end{aligned}
$$

SOLVING LINEAR SYSTEMS Solve the linear system using elimination.
25. $-x+\frac{1}{2} y=-19$
$x-y=12$
28. $5.2 x+3.5 y=54$
$-3.6 x+3.5 y=10$
31. $\frac{4}{5} x+\frac{2}{5} y=14$
$\frac{2}{5} y+\frac{1}{5} x=11$
26. $\begin{aligned} \frac{1}{4} x-\frac{2}{3} y & =7 \\ \frac{1}{2} x+\frac{2}{3} y & =-4\end{aligned}$
29. $1.3 x-3 y=-17.6$
$-1.3 x+4.5 y=25.1$
32. $2.7 x+1.5 y=36$
$3.5 y=2.7 x-6$
27. $8 x-\frac{1}{2} y=-38$
$\frac{1}{4} x-\frac{1}{2} y=-7$
30. $\begin{array}{r}-2.6 x-3.2 y=4.8 \\ 1.9 x-3.2 y=-4.2\end{array}$
33. $4-4.8 x=1.7 y$
$12.8+1.7 y=-13.2 x$
34. WRITING AN EQUATION OF A LINE Use the following steps to write an equation of the line that passes through the points $(1,2)$ and $(-4,12)$.
a. Write a system of linear equations by substituting 1 for $x$ and 2 for $y$ in $y=m x+b$ and -4 for $x$ and 12 for $y$ in $y=m x+b$.
b. Solve the system of linear equations from part (a). What is the slope of the line? What is the $y$-intercept?
c. Write an equation of the line that passes through $(1,2)$ and $(-4,12)$.
35. (2) GEOMETRY The rectangle has a perimeter $P$ of 14 feet, and twice its length $\ell$ is equal to 1 less than 4 times its width $w$. Write and solve a system of linear equations to find the length
 and the width of the rectangle.
36. TAKS REASONING Find the solution of the system of linear equations below. Explain your steps.

$$
\begin{array}{ll}
x+3 y=8 & \text { Equation } 1 \\
x-6 y=-19 & \text { Equation } 2 \\
5 x-3 y=-14 & \text { Equation } 3
\end{array}
$$

37. CHALLENGE For $a \neq 0$, what is the solution of the system $a x+2 y=4$ and $a x-3 y=-6$ ?
38. CHALLENGE Solve for $x, y$, and $z$ in the system of equations below. Explain your steps.

$$
\begin{array}{ll}
x+7 y+3 z=29 & \text { Equation 1 } \\
3 z+x-2 y=-7 & \text { Equation 2 } \\
5 y=10-2 x & \text { Equation } 3
\end{array}
$$

