## 4-2 Additional Practice

Solving Systems of Equations by Substitution
Use substitution to solve each system of equations.

1. $\left\{\begin{array}{l}y=-x+4 \\ y=3 x\end{array}\right.$
2. $\left\{\begin{array}{l}y=2 x-10 \\ 2 y=x-8\end{array}\right.$
3. $\left\{\begin{array}{l}x-2 y=12 \\ y=3 x+14\end{array}\right.$
4. $\left\{\begin{array}{l}x=2 y-6 \\ y=3 x-7\end{array}\right.$
5. $\left\{\begin{array}{l}6 x-4 y=18 \\ -x-6 y=7\end{array}\right.$
6. $\left\{\begin{array}{l}9 x-3 y=9 \\ 3 x-y=3\end{array}\right.$
7. $\left\{\begin{array}{l}y=3 x+8 \\ 2 y=6 x+16\end{array}\right.$
8. $\left\{\begin{array}{l}y=4 x+5 \\ 12 x-3 y=9\end{array}\right.$
9. $\left\{\begin{array}{l}7 y=-2 x+5 \\ 3 x+10 y=6\end{array}\right.$
10. Solve the system $\left\{\begin{array}{r}x+y=6 \\ 5 x-y=3\end{array}\right.$ by graphing and by substitution. Compare the methods. Which method is more accurate? Explain.

11. A community theater sold a total of 400 full-price tickets for adults and children. The price was $\$ 8.00$ per adult ticket and $\$ 5.00$ per children's ticket. If the total revenue was $\$ 2,750$, how many adult tickets and how many children's tickets were sold?
