## 4-3 Additional Practice

## Solving Systems of Equations by Elimination

Use elimination to solve each system of equations.

1. $\left\{\begin{array}{l}x+y=7 \\ x-y=-3\end{array}\right.$
2. $\left\{\begin{array}{l}x-2 y=10 \\ 3 x+y=-12\end{array}\right.$
3. $\left\{\begin{array}{l}5 x+3 y=12 \\ x-4 y=7\end{array}\right.$
4. $\left\{\begin{array}{l}6 x+2 y=-12 \\ 4 x+3 y=7\end{array}\right.$
5. $\left\{\begin{array}{l}4 x-6 y=26 \\ 5 x-4 y=8\end{array}\right.$
6. $\left\{\begin{array}{l}5 x+3 y=13 \\ 7 x+8 y=-16\end{array}\right.$

Which solution method, graphing, substitution, or elimination, is the most appropriate for solving each system of equations? Explain.
7. $\left\{\begin{array}{l}3 x+8 y=-4 \\ 2 x-4 y=16\end{array}\right.$
8. $\left\{\begin{array}{l}6 x-y=16 \\ x=4 y-5\end{array}\right.$
9. $\left\{\begin{array}{l}x+y=19 \\ 3 x-2 y=-3\end{array}\right.$
10. Determine whether the first system of equations is equivalent to the second system of equations. Explain.
$\left\{\begin{array}{l}3 x+5 y=1 \\ 2 x-6 y=38\end{array} \quad\left\{\begin{array}{l}18 x+30 y=6 \\ 10 x-30 y=190\end{array}\right.\right.$
11. The cost of 2 bottles of water and 4 apples is $\$ 5.50$. The cost of 3 bottles of water and 5 apples is $\$ 7.50$. Find the cost of one apple and the cost of one bottle of water.

