**10-4A Lesson Master**

**SKILLS** Objective B

In 1–4, a system is given. Solve the system using addition.

1. \[
\begin{align*}
4x - 3y &= -50 \\
7x + 3y &= -5
\end{align*}
\]

2. \[
\begin{align*}
2m - n &= -2 \\
-2m + 4n &= 23
\end{align*}
\]

3. \[
\begin{align*}
-8a + b &= -4 \\
2a + b &= 2
\end{align*}
\]

4. \[
\begin{align*}
-2x + 5y &= 34 \\
2x - 7y &= -50
\end{align*}
\]

**USES** Objective G

5. A pilot flew a small plane 525 miles from Houston, Texas, to Pensacola, Florida, in 3 hours against the wind. The pilot returned to Houston in 2 hours and 30 minutes with the wind at the plane’s tail. How fast was the plane flying without the wind? What was the speed of the wind?

6. At a ski resort one family pays $1,045 for 3 nights of lodging and 8 ski lift passes. Another family pays $1,305 for 3 nights of lodging and 12 ski lift passes. What is the cost of one night’s lodging and what is the cost of a ski lift pass?

7. Holly purchased 2 pairs of jeans and 5 shirts for $243. Stephanie purchased 2 pairs of the same jeans but only 2 of the same shirts for $162. What is the price of a pair of jeans at the store? What is the price of a shirt at the store?