## READY TO GO ON?

## Quiz for Lessons 6-1 Through 6-4

## 6-1 Solving Systems by Graphing

Tell whether the ordered pair is a solution of the given system.

1. $(-2,1) ;\left\{\begin{array}{l}y=-2 x-3 \\ y=x+3\end{array}\right.$
2. $(9,2) ;\left\{\begin{array}{l}x-4 y=1 \\ 2 x-3 y=3\end{array}\right.$
3. $(3,-1) ;\left\{\begin{array}{l}y=-\frac{1}{3} x \\ y+2 x=5\end{array}\right.$

Solve each system by graphing.
4. $\left\{\begin{array}{l}y=x+5 \\ y=\frac{1}{2} x+4\end{array}\right.$
5. $\left\{\begin{array}{l}y=-x-2 \\ 2 x-y=2\end{array}\right.$
6. $\left\{\begin{array}{l}\frac{2}{3} x+y=-3 \\ 4 x+y=7\end{array}\right.$
7. Banking Christiana and Marlena opened their first savings accounts on the same day. Christiana opened her account with $\$ 50$ and plans to deposit $\$ 10$ every month. Marlena opened her account with $\$ 30$ and plans to deposit $\$ 15$ every month. After how many months will their two accounts have the same amount of money? What will that amount be?

## 6-2 Solving Systems by Substitution

Solve each system by substitution.
8. $\left\{\begin{array}{l}y=-x+5 \\ 2 x+y=11\end{array}\right.$
9. $\left\{\begin{array}{l}4 x-3 y=-1 \\ 3 x-y=-2\end{array}\right.$
10. $\left\{\begin{array}{l}y=-x \\ y=-2 x-5\end{array}\right.$

## 6-3 Solving Systems by Elimination

Solve each system by elimination.
11. $\left\{\begin{array}{l}x+3 y=15 \\ 2 x-3 y=-6\end{array}\right.$
12. $\left\{\begin{array}{l}x+y=2 \\ 2 x+y=-1\end{array}\right.$
13. $\left\{\begin{array}{l}-2 x+5 y=-1 \\ 3 x+2 y=11\end{array}\right.$
14. It takes Akira 10 minutes to make a black and white drawing and 25 minutes for a color drawing. On Saturday he made a total of 9 drawings in 2 hours. Write and solve a system of equations to determine how many drawings of each type Akira made.

## 6-4 Solving Special Systems

Solve each system of linear equations.
15. $\left\{\begin{array}{l}y=-2 x-6 \\ 2 x+y=5\end{array}\right.$
16. $\left\{\begin{array}{l}x+y=2 \\ 2 x+2 y=-6\end{array}\right.$
17. $\left\{\begin{array}{l}y=-2 x+4 \\ 2 x+y=4\end{array}\right.$

Classify each system. Give the number of solutions.
18. $\left\{\begin{array}{l}3 x=-6 y+3 \\ 2 y=-x+1\end{array}\right.$
19. $\left\{\begin{array}{l}y=-4 x+2 \\ 4 x+y=-2\end{array}\right.$
20. $\left\{\begin{array}{l}4 x-3 y=8 \\ y=4(x+2)\end{array}\right.$

