$\qquad$ Class $\qquad$ Date $\qquad$

## Extra Practice

## Lesson 6-1

Solve each system by graphing.

1. $4 x-4 y=28$
$3 x+2 y=6$
2. $y-2 x=3$
$y=-\frac{3}{2} x-4$
3. $2 y=-4 x+12$
$3 x+4 y=24$

Write and solve a system of equations by graphing.
4. One calling card has a $\$ .50$ connection fee and charges $\$ .02$ per minute.

Another card has a $\$ .25$ connection fee and charges $\$ .03$ per minute.
After how many minutes would a call cost the same amount using either card?
5. Suppose that you have $\$ 75$ in your savings account and you save an additional $\$ 5$ per week. Your friend has $\$ 30$ in his savings account and saves an additional $\$ 10$ per week. In how many weeks will you both have the same amount of money in your accounts?

## Lesson 6-2

Solve each system by using substitution.
6. $3 x-3 y=39$
$y-x=-13$
7. $3 x-y=4$
$x+5 y=-4$
8. $x+y=4$
$y=7 x+4$

## Write and solve a system of equations by substitution.

9. A farmer grows corn and soybeans on her 300-acre farm. She wants to plant 110 more acres of soybeans than corn. How many acres of each crop does she need to plant?
10. The perimeter of a rectangle is 34 cm . The length is 1 cm longer than the width. What are the dimensions of the rectangle?
