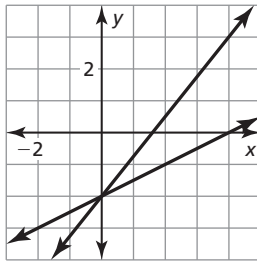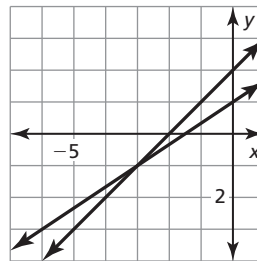Name_____ Date _____

5.1　Practice B

In Exercises 1 and 2, use the graph to solve the system of linear equations. Check your solution.

1. $5x - 4y = 8$

   $-x + 2y = -4$

2. $4x - 6y = -6$

   $4x - 4y = -8$

In Exercises 3–6, solve the system of linear equations by graphing.

3. $3x - 5y = 2$

   $y = 2$

4. $-x + 4y = -10$

   $2x - 3y = 5$

5. $y = -\frac{3}{2}x - 3$

   $y = \frac{1}{2}x + 5$

6. $3x + 3y = -3$

   $5x + 2y = 1$

In Exercises 7 and 8, use a graphing calculator to solve the system of linear equations.

7. $0.8x - 0.9y = 0$

   $x - 0.5y = 1$

8. $4.2x - y = 3$

   $2x - y = -0.3$

9. You spend $11 on school supplies. You purchase pencils for $0.25 each and pens for $2 each. You purchase a total of 30 pencils and pens. How many of each did you purchase?

10. You begin with $90 in your savings account and your friend begins with $35 in her savings account. You deposit $10 in savings each week, and your friend deposits $15 in savings each week.

   a. Write and graph a system of linear equations that represent the amounts in each of your savings accounts.

   b. Your friend says that in 10 weeks you will both have the same amount of money in your savings accounts. Is your friend correct? Use the graph from part (a) to explain your answer.