Name _____ Date _____

# 5.1 Practice A

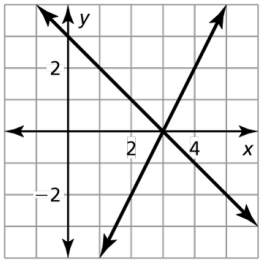
**In Exercises 1 and 2, tell whether the ordered pair is a solution of the system of linear equations.**

**1.** $(3, 4)$; $x + y = 7$
$x - 2y = -5$

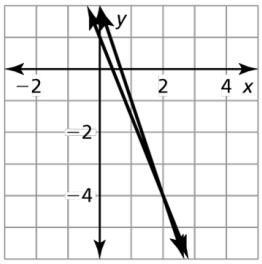
**2.** $(-5, 2)$; $y = -x - 3$
$y = 3x + 10$

**In Exercises 3 and 4, use the graph to solve the system of linear equations. Check your solution.**

**3.** $x + y = 3$
$2x - y = 6$




**4.** $5x + 2y = 2$
$3x + y = 2$




**In Exercises 5 and 6, solve the system of linear equations by graphing.**

**5.** $y = x + 4$
$y = -x + 8$

**6.** $y = \frac{1}{3}x + 6$
$y = -\frac{2}{3}x + 3$

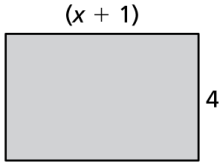
**In Exercises 7 and 8, use a graphing calculator to solve the system of linear equations.**

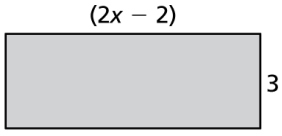
**7.** $0.2x - 0.2y = 2$
$0.9x + 0.6y = 6$

**8.** $-1.5x + y = 2.5$
$15x - 1.5y = 4.8$

**9.** You sell bracelets for \$2 each and necklaces for \$3 each at a local flea market. You collect \$95, selling a total of 37 jewelry items. How many of each type of jewelry did you sell?

**10.** For each rectangle below, write a linear equation that represents the area $y$ of the rectangle. Solve this system of two linear equations by graphing. Interpret your solution.



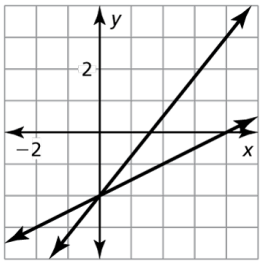



Name_____ Date _____

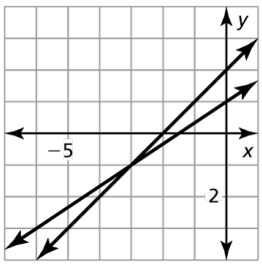
# 5.1 Practice B

**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.