LESSON 8.8

Name _____ Date _____

Challenge Practice

For use with pages 431–435

Solve the linear system by graphing.

1. $5x + 2y = 6$
$3y + 7x = 8$

2. $2y - 3x + 5 = 0$
$3y + 4x - 18 = 0$

3. $2y + 5 = x$
$2y - 1 = 7x$

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

5. $4x + 3y - 24 = 0$
$\frac{2}{3}x + \frac{1}{2}y = 4$
$y + \frac{4}{3}x = 8$

6. $y = 3x - 2$
$y = -4x + 12$
$y = -3x + 9$

7. Write a linear equation so that the linear system formed by your equation and the equation $y = 2x - 3$ has the given solution.

a. one solution at (3, 3)

b. no solution

c. many solutions

8. Use a system of equations to find the dimensions of a rectangle so that its length is three times its width and its perimeter is 56 units.