

Name: _____ Period: _____

Score: _____/_____ _____%

Unit 8 Review

From the given information, write an equation in **point-slope form**.

1. $m=7$ (1,2)

2. Slope=-1 (2,-4)

3. (-1,4) (4,14)

From the given information, write an equation in **slope-intercept form**.

4. $m=-1$ (3,-1)

5. $m= \frac{1}{2}$ (-3,-1)

6. $m= \frac{5}{3}$ (3,-5)

7. $m= 2$ (-1,2)

8. (0,9) (4,25)

9. (2,-3) (16,-10)

10. (5,12) (8,3)

Determine if the following point is a solution to the given system of equations.

11.
(2, -3)

$$x + y = -1$$

$$2x + 5y = 19$$

12.
(-1, -3)

$$3x + 5y = -18$$

$$4x + 2y = -10$$

13.
(4,3)

$$x + 2y = 10$$

$$3x + 5y = 3$$

14.
(-9, -2)

$$2x - 5y = -8$$

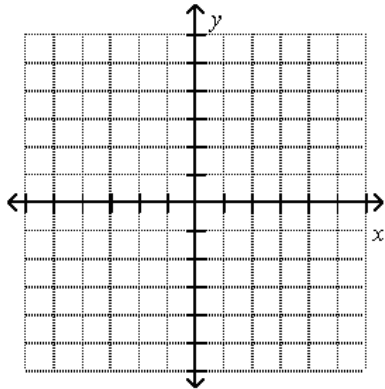
$$3x + 6y = -39$$

Solve the system of equations by graphing.

15.

$$y = -x + 6$$

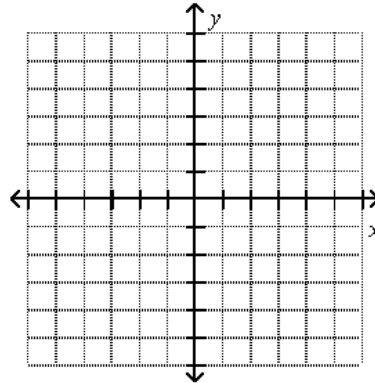
$$y = x - 2$$



16.

$$y = \frac{1}{2}x - 3$$

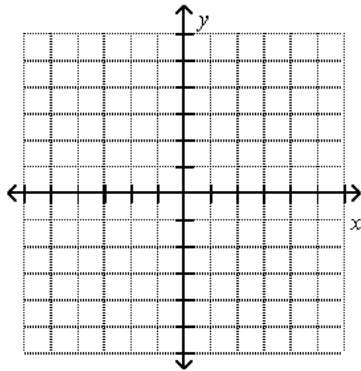
$$y = -4x + 6$$



17.

$$y = -3x + 2$$

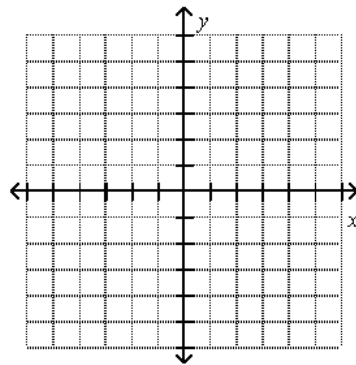
$$y = \frac{3}{2}x + 2$$



18.

$$-3x + y = -3$$

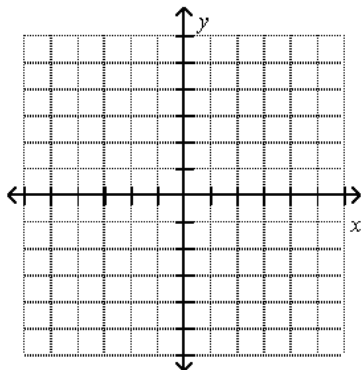
$$y = x - 3$$



19.

$$3x - 2y = 12$$

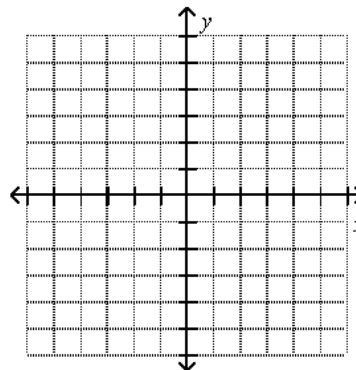
$$y = -4x + 5$$



20.

$$x + 2y = 6$$

$$2x + 4y = 8$$



Solve each system using substitution.

21.

$$x + y = 9$$

$$y = 2x + 3$$

22.

$$3x + y = 7$$

$$x = 2y$$

23.

$$4x + 5y = 44$$

$$x = 2y - 2$$

24.

$$2x + y = -4$$

$$x = y + 7$$

25.

$$4x + 3y = -35$$

$$x = -y$$

26.

$$2x - y = -8$$

$$x = -2y + 11$$

27.

$$y = 3x + 7$$

$$2x + 3y = 54$$

28.

$$2x - 5y = -19$$

$$y = x + 2$$

Solve each system using elimination.

29.

$$2x - y = 13$$

$$x + y = 8$$

30.

$$2x - y = 4$$

$$3x + y = 21$$

31.

$$x + 3y = 6$$

$$x + 2y = 14$$

32.

$$4x + 2y = 15$$

$$2x + 2y = 7$$

33.

$$6x - 14y = -28$$

$$5x + 2y = 45$$

34.

$$x - y = 2$$

$$-2x + 3y = 3$$

35.

$$5x + y = 10$$

$$4x + y = 4$$

36.

$$2x - 3y = 11$$

$$2x + 2y = 6$$