

Name: Key Period: \_\_\_\_\_ Score: \_\_\_\_\_

## Chapter 10 Review

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

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

$$y = 7x - 5$$

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

$$y = -x - 2$$

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

$$y = 2x + 6$$

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

$$y = -x + 2$$

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

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

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

$$y = \frac{5}{3}x - 10$$

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

$$y = 2x + 4$$

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

$$y = 4x + 9$$

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

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

10. (-10,14) and (10,22)

$$y = \frac{2}{5}x + 18$$

11. (6,-4) and (-15,11)

$$y = -\frac{5}{7}x + \frac{2}{7}$$

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

$$y = -3x + 27$$

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

13.

(2,-3)

**NO**

$$x + y = -1$$

$$2x + 5y = 19$$

14.

(-1,-3)

**yes**

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

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

15.

(4,3)

**NO**

$$x + 2y = 10$$

$$3x + 5y = 3$$

16.

(-9,-2)

**yes**

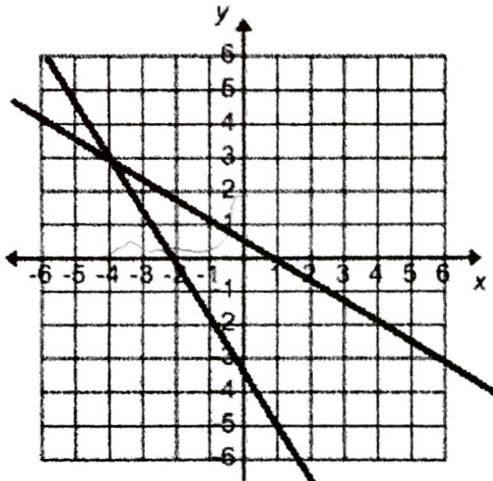
$$2x - 5y = -8$$

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

What is the solution to the graphed system of equations?

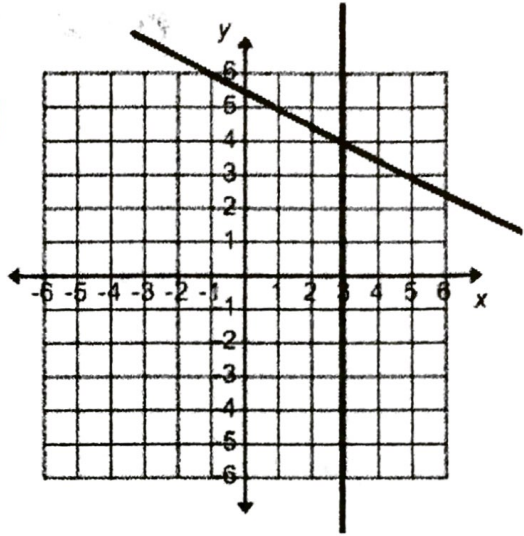
17.

$(-4, 3)$



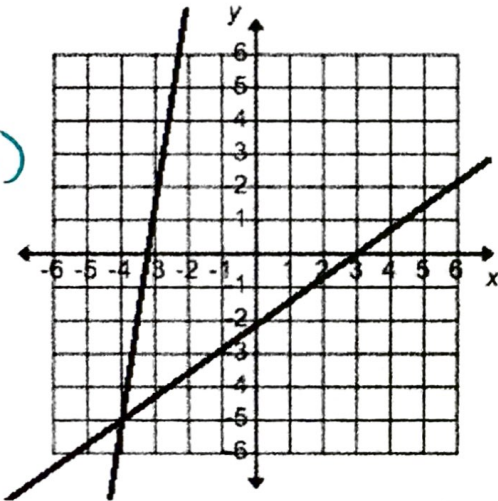
18.

$(3, 4)$



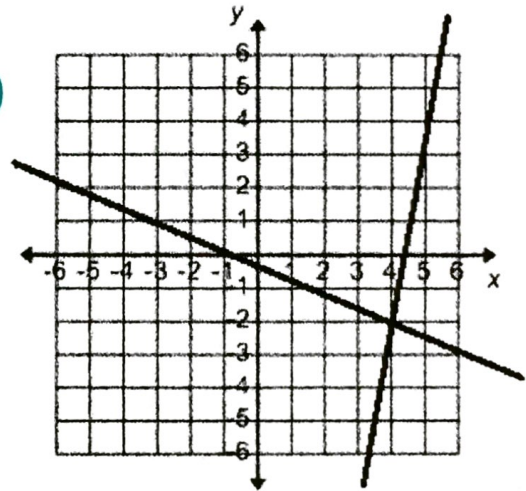
19.

$(-4, -5)$



20.

$(4, -2)$



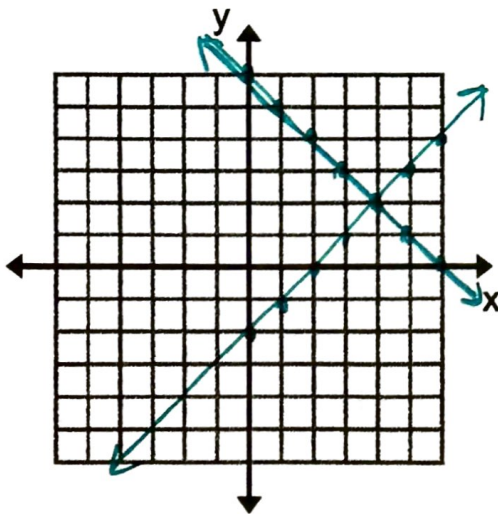
Solve the system of equations by graphing.

21.

$$y = -x + 6$$

$$y = x - 2$$

$(4, 2)$

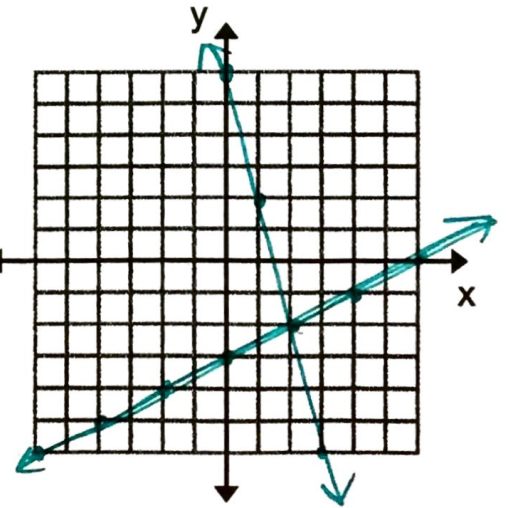


22.

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

$$y = -4x + 6$$

$(2, -2)$



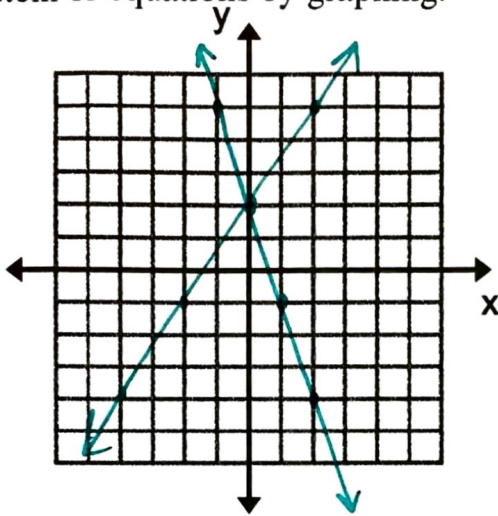
Solve the system of equations by graphing.

23.

$$y = -3x + 2$$

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

$(0, 2)$

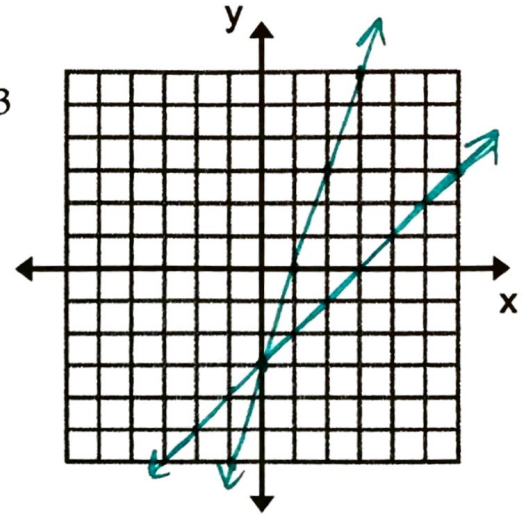


24.

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

$$y = x - 3$$

$(0, -3)$

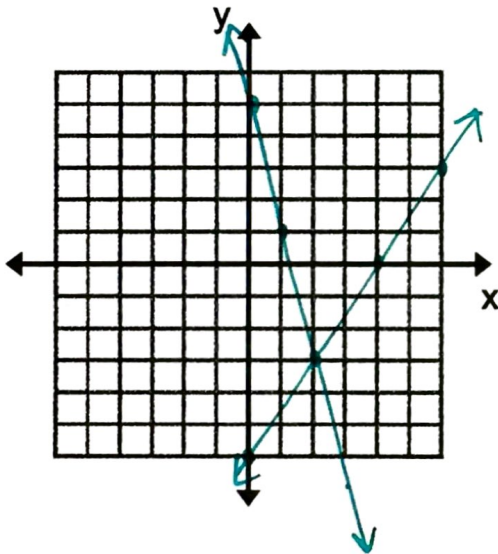


25.

$$3x - 2y = 12$$

$$y = -4x + 5$$

$(2, -3)$

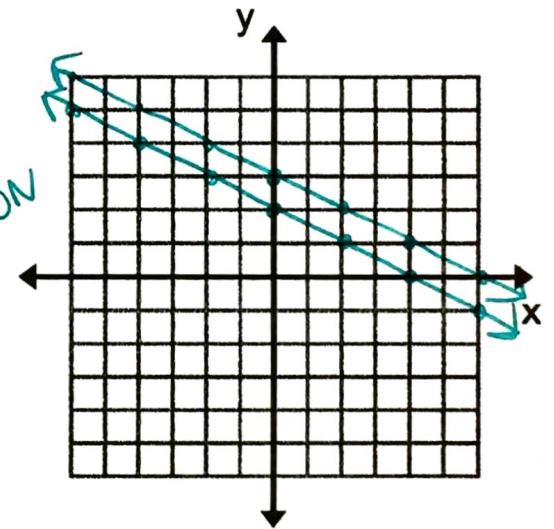


26.

$$x + 2y = 6$$

$$2x + 4y = 8$$

NO SOLUTION

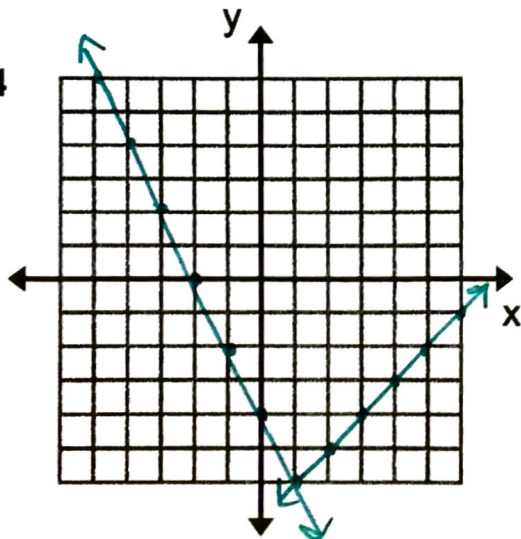


27.

$$2x + y = -4$$

$$x = y + 7$$

$(1, -6)$



28.

$$4x - 3y = 12$$

$$x = 2y - 2$$

$(6, 4)$

