Systems of Equations Review   Name: _____

In Exercises 1–4, Solve the system by substitution.

1.

$$y = 2x + 9$$
$$5x + y = -5$$

3.

$$-4x + 2y = 0$$
$$x + 2y = -10$$

2.

$$-21x - 3y = 7$$
$$y = -7x + 3$$

4.

$$8x + 4y = -24$$
$$5x + y = -18$$

In Exercises 5–8, Solve the system by elimination.

5.

$$-x + y = 4$$
$$5x + 5y = -20$$

7.

$$6x - 2y = 8$$
$$-6x + 3y = -9$$

6.

$$-9x - 7y = 8$$
$$3x - 4y = -28$$

8.

$$-5x - y = 14$$
$$-10x + 5y = 0$$

In Exercises 9–10, Solve the system using any method.

9.

$$-3x - 2y = -6$$
$$x - y = 2$$

10.

$$-18x + 7y = 1$$
$$9x - 4y = 2$$

In Exercises 11–14, Solve the system by graphing.

11.
$$y = -4x - 1$$
$$y = -5$$
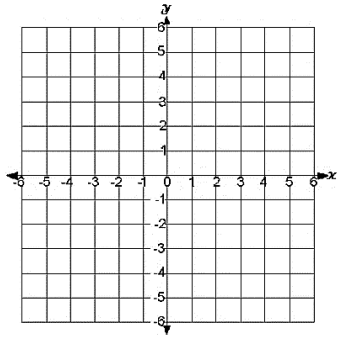
12.
$$y = \frac{3}{2}x + 1$$
$$y = -\frac{1}{2}x - 3$$

13.
$$y = \frac{1}{3}x - 2$$
$$y = \frac{1}{3}x + 3$$

14.
$$y = \frac{3}{2}x - 1$$
$$y = \frac{1}{3}x - 1$$
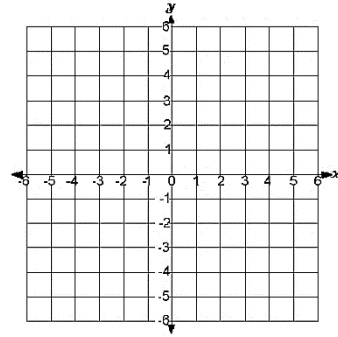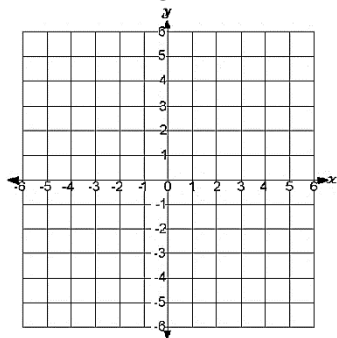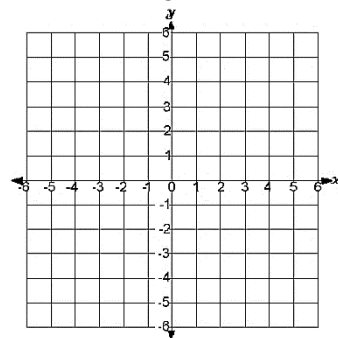
In Exercises 15–16, Determine whether the ordered pair is a solution to the system.

15. Is (0,3) a solution?
$$5x + y = 3$$
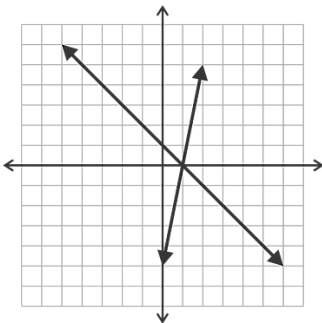$$-3x - 5y = -15$$

16. Is (1,2) a solution?
$$x - 2y = 10$$
$$8x + 2y = 8$$

In Exercises 17–18, What is the solution to the system?

17.

18.

19.