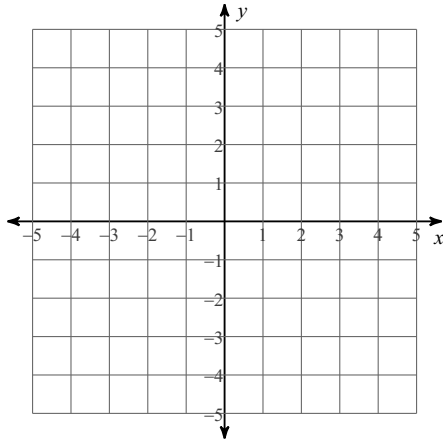


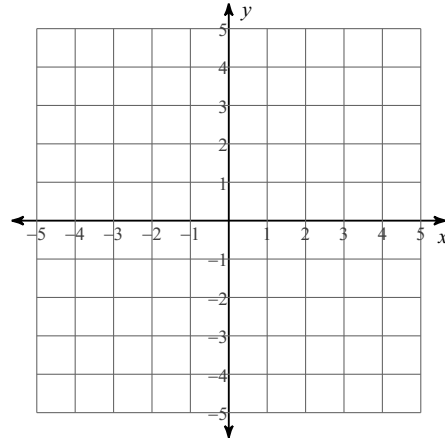
Quiz Review

Solve each system by graphing.

1) $-x = 4y - 12$
 $-5x + 12 = -4y$

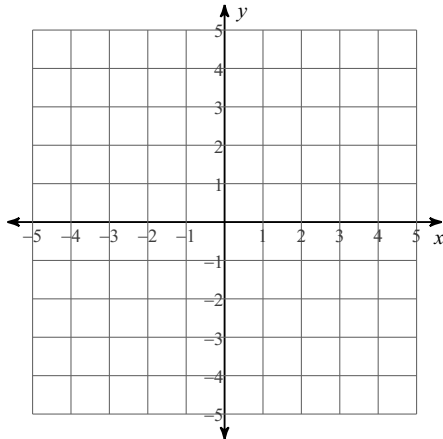


2) $y = -3x + 3$
 $y = \frac{1}{2}x - 4$

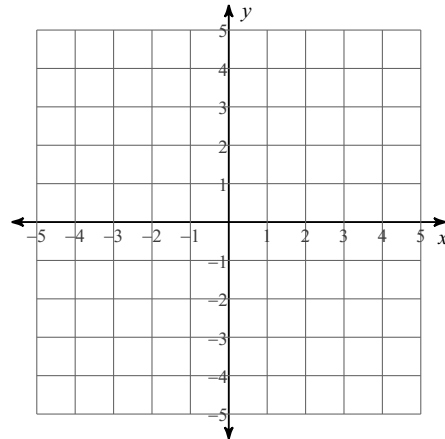


Sketch the solution to each system of inequalities.

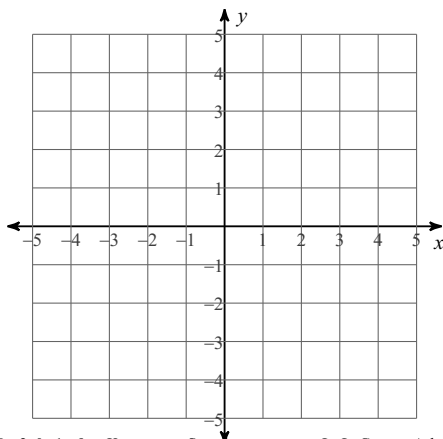
3) $y > 2$
 $y > -x + 1$



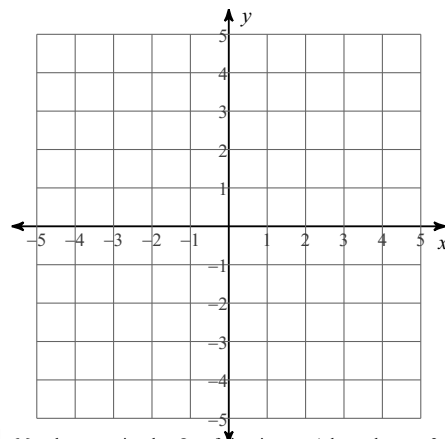
4) $y > x + 2$
 $y < 6x - 3$



5) $x + 3y > -6$
 $x < 3$



6) $x - y \geq -2$
 $x + 3y \leq -6$



Solve each system by substitution.

7) $-5x + 5y = -15$
 $-2x + y = -11$

8) $x + 2y = -3$
 $4x - 4y = -24$

Solve each system by elimination.

9) $8x + 18y = 1$
 $4x + 9y = 5$

10) $-6x + 7y = 8$
 $9x - 14y = -19$

11) The school that Elisa goes to is selling tickets to a spring musical. On the first day of ticket sales the school sold 5 adult tickets and 12 student tickets for a total of \$118. The school took in \$136 on the second day by selling 8 adult tickets and 6 student tickets. What is the price each of one adult ticket and one student ticket?

12) The sum of two numbers is 14. Their difference is 2. Find the numbers.

13) Flying with the wind a plane went 323 mph. Flying into the same wind the plane only went 265 mph. Find the speed of the wind and the speed of the plane in still air.

Solve each system.

14) $z = -4$
 $-2x - 5y = -4$
 $x = 5z + 22$

15) $-5x - 4y - z = -9$
 $5x + y + z = -6$
 $2x + 4y + z = 15$

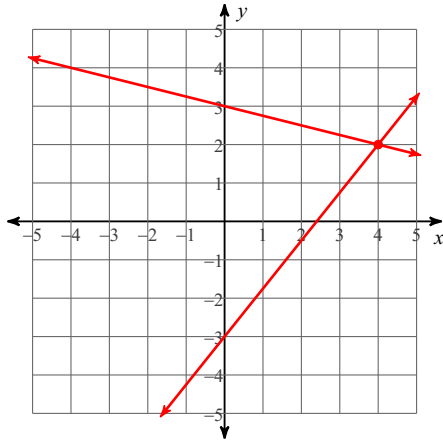
16) $z = -x + 5y + 8$
 $2x + y = 3$
 $x = -4y + 4z - 6$

17) $y = x - 8$
 $x = -y - 5z - 5$
 $3x + y - 4z = 12$

Quiz Review

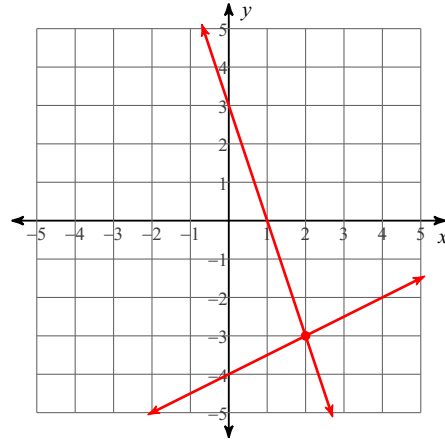
Solve each system by graphing.

1) $-x = 4y - 12$
 $-5x + 12 = -4y$



(4, 2)

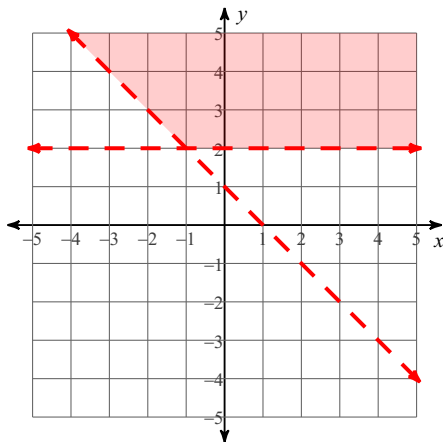
2) $y = -3x + 3$
 $y = \frac{1}{2}x - 4$



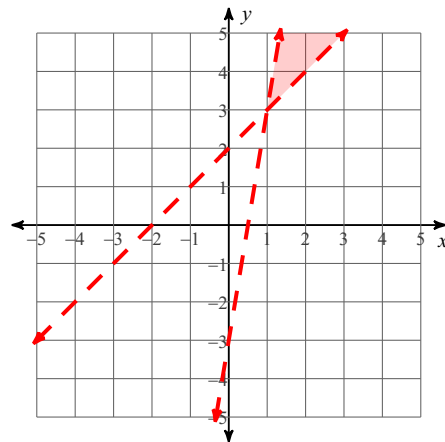
(2, -3)

Sketch the solution to each system of inequalities.

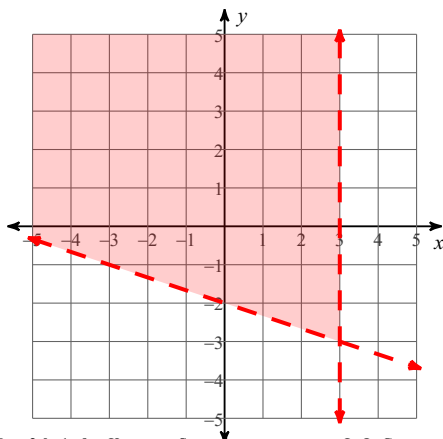
3) $y > 2$
 $y > -x + 1$



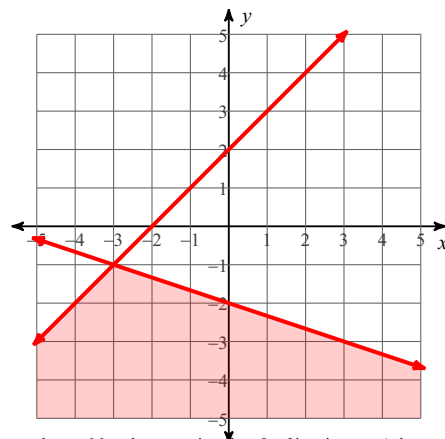
4) $y > x + 2$
 $y < 6x - 3$



5) $x + 3y > -6$
 $x < 3$



6) $x - y \geq -2$
 $x + 3y \leq -6$



Solve each system by substitution.

$$\begin{aligned} 7) \quad & -5x + 5y = -15 \\ & -2x + y = -11 \\ & \quad (8, 5) \end{aligned}$$

$$\begin{aligned} 8) \quad & x + 2y = -3 \\ & 4x - 4y = -24 \\ & \quad (-5, 1) \end{aligned}$$

Solve each system by elimination.

$$\begin{aligned} 9) \quad & 8x + 18y = 1 \\ & 4x + 9y = 5 \\ & \quad \text{No solution} \end{aligned}$$

$$\begin{aligned} 10) \quad & -6x + 7y = 8 \\ & 9x - 14y = -19 \\ & \quad (1, 2) \end{aligned}$$

- 11) The school that Elisa goes to is selling tickets to a spring musical. On the first day of ticket sales the school sold 5 adult tickets and 12 student tickets for a total of \$118. The school took in \$136 on the second day by selling 8 adult tickets and 6 student tickets. What is the price each of one adult ticket and one student ticket?

adult ticket: \$14, student ticket: \$4

- 12) The sum of two numbers is 14. Their difference is 2. Find the numbers.

6 and 8

- 13) Flying with the wind a plane went 323 mph. Flying into the same wind the plane only went 265 mph. Find the speed of the wind and the speed of the plane in still air.

Plane: 294 mph, Wind: 29 mph

Solve each system.

$$\begin{aligned} 14) \quad & z = -4 \\ & -2x - 5y = -4 \\ & x = 5z + 22 \\ & \quad (2, 0, -4) \end{aligned}$$

$$\begin{aligned} 15) \quad & -5x - 4y - z = -9 \\ & 5x + y + z = -6 \\ & 2x + 4y + z = 15 \\ & \quad (-2, 5, -1) \end{aligned}$$

$$\begin{aligned} 16) \quad & z = -x + 5y + 8 \\ & 2x + y = 3 \\ & x = -4y + 4z - 6 \\ & \quad (2, -1, 1) \end{aligned}$$

$$\begin{aligned} 17) \quad & y = x - 8 \\ & x = -y - 5z - 5 \\ & 3x + y - 4z = 12 \\ & \quad (4, -4, -1) \end{aligned}$$