

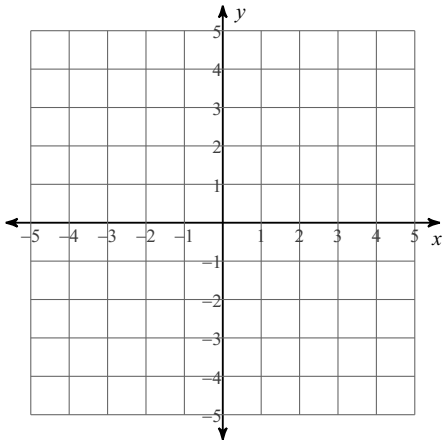
## Systems of Equations / Inequalities REVIEW

Date \_\_\_\_\_ Period \_\_\_\_\_

Solve each system by graphing.

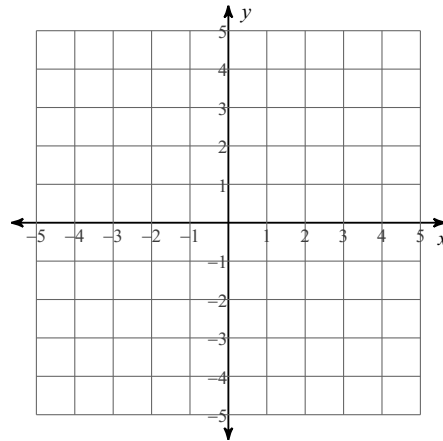
1)  $y = -\frac{1}{4}x - 2$

$y = -\frac{7}{4}x + 4$



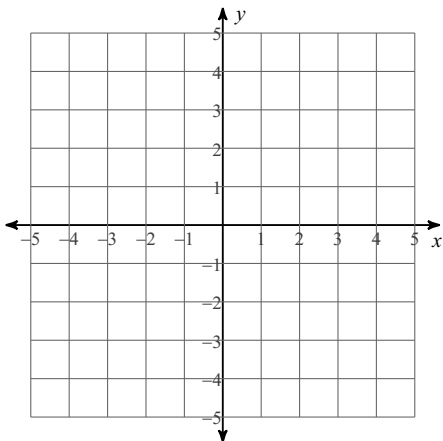
2)  $y = -\frac{5}{4}x + 3$

$y = -\frac{5}{4}x - 1$



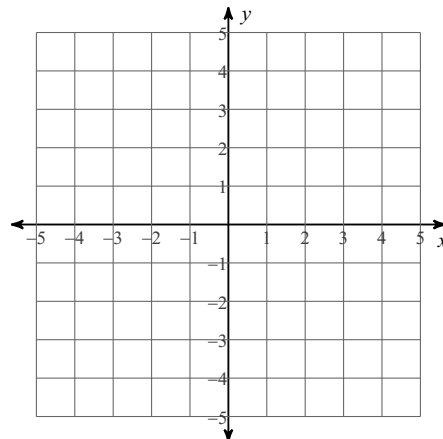
3)  $y = \frac{1}{4}x - 1$

$y = \frac{5}{4}x + 3$



4)  $y = -3x - 1$

$y = x + 3$



**Solve each system by substitution.**

$$\begin{aligned} 5) \quad y &= -7x - 11 \\ y &= -2x - 1 \end{aligned}$$

$$\begin{aligned} 6) \quad y &= 6x + 16 \\ y &= 7x + 20 \end{aligned}$$

$$\begin{aligned} 7) \quad y &= 3x + 2 \\ y &= -2x - 13 \end{aligned}$$

$$\begin{aligned} 8) \quad y &= x + 8 \\ -3x - y &= 24 \end{aligned}$$

$$\begin{aligned} 9) \quad y &= 2x - 9 \\ 4x - 3y &= 15 \end{aligned}$$

$$\begin{aligned} 10) \quad y &= 2x - 10 \\ 3x - 2y &= 18 \end{aligned}$$

**Solve each system by elimination.**

$$\begin{aligned} 11) \quad & -2x - 2y = -22 \\ & 2x + 10y = 30 \end{aligned}$$

$$\begin{aligned} 12) \quad & -x + 4y = 30 \\ & -3x - 4y = 10 \end{aligned}$$

$$\begin{aligned} 13) \quad & 5x + 9y = 13 \\ & -x + 9y = 19 \end{aligned}$$

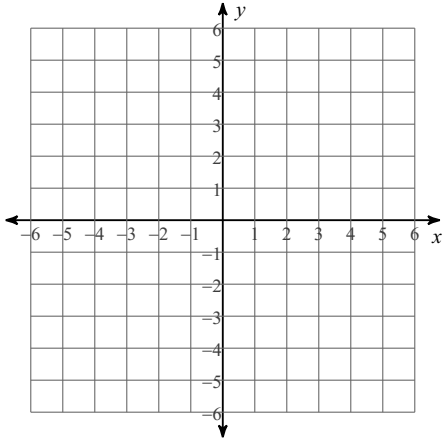
$$\begin{aligned} 14) \quad & -3x - y = -5 \\ & -4x - y = -10 \end{aligned}$$

$$\begin{aligned} 15) \quad & -7x + 10y = 26 \\ & -x + 5y = -7 \end{aligned}$$

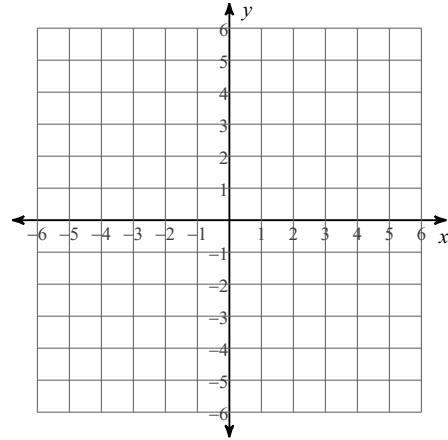
$$\begin{aligned} 16) \quad & 9x + 8y = 8 \\ & 10x - 4y = -4 \end{aligned}$$

Sketch the graph of each linear inequality.

17)  $y < -x - 2$

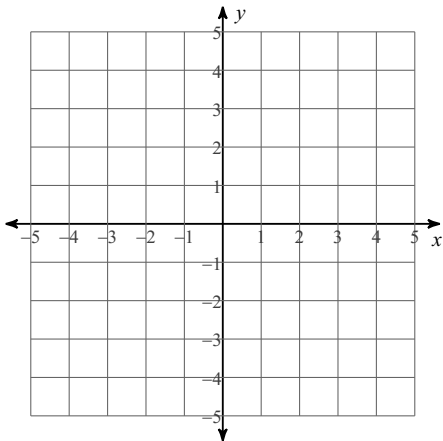


18)  $y \geq 5x - 5$

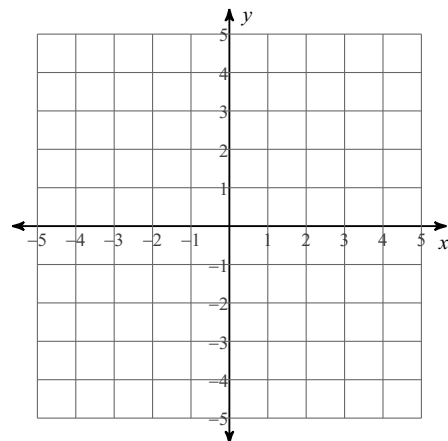


Sketch the solution to each system of inequalities.

19)  $y \leq -3$   
 $y \geq -x - 1$



20)  $y \leq 2x - 3$   
 $y < \frac{1}{3}x + 2$



# Answers to Systems of Equations / Inequalities REVIEW (ID: 1)

1)  $(4, -3)$

2) No solution

3)  $(-4, -2)$

4)  $(-1, 2)$

5)  $(-2, 3)$

6)  $(-4, -8)$

7)  $(-3, -7)$

8)  $(-8, 0)$

9)  $(6, 3)$

10)  $(2, -6)$

11)  $(10, 1)$

12)  $(-10, 5)$

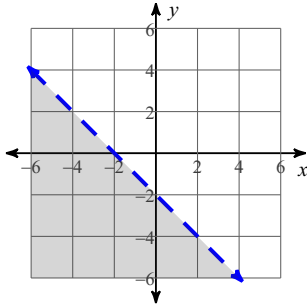
13)  $(-1, 2)$

14)  $(5, -10)$

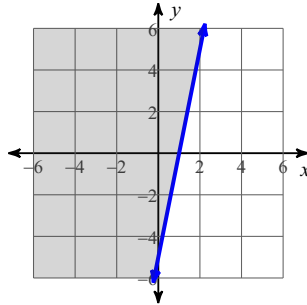
15)  $(-8, -3)$

16)  $(0, 1)$

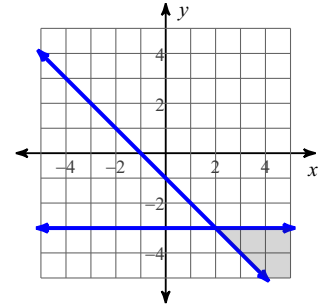
17)



18)



19)



20)

