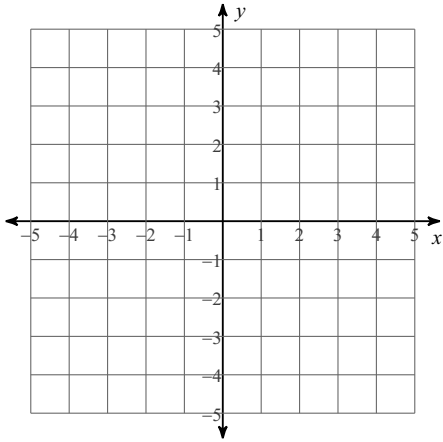


Systems of Equations / Inequalities REVIEW

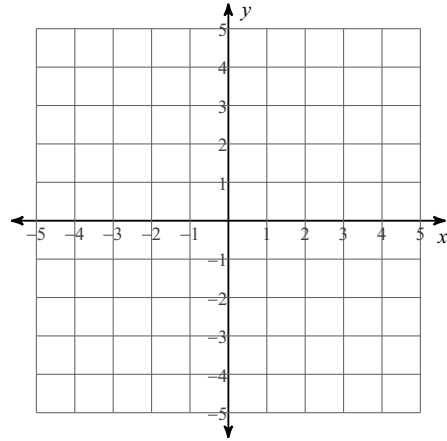
Date _____ Period _____

Solve each system by graphing.

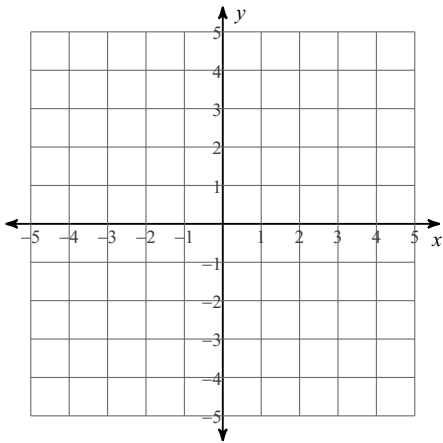
$$1) \begin{aligned} y &= -x + 4 \\ y &= x + 2 \end{aligned}$$



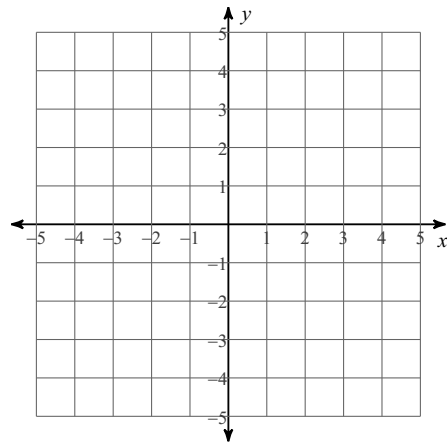
$$2) \begin{aligned} y &= \frac{5}{2}x - 1 \\ y &= \frac{5}{2}x - 3 \end{aligned}$$



$$3) \begin{aligned} y &= \frac{7}{3}x - 3 \\ y &= \frac{1}{3}x + 3 \end{aligned}$$

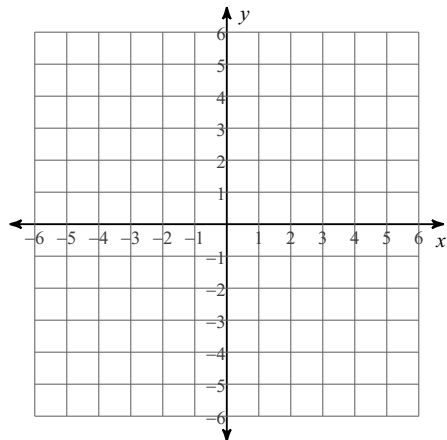


$$4) \begin{aligned} y &= x + 3 \\ y &= -x - 1 \end{aligned}$$

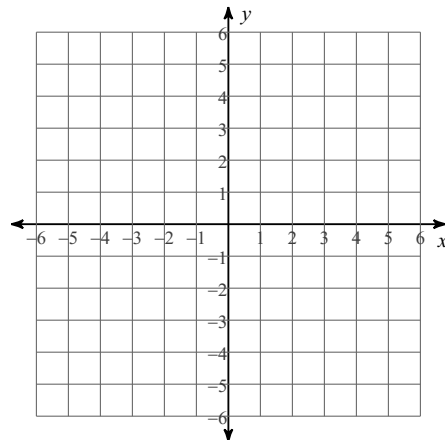


Sketch the graph of each linear inequality.

5) $y \leq -x + 5$

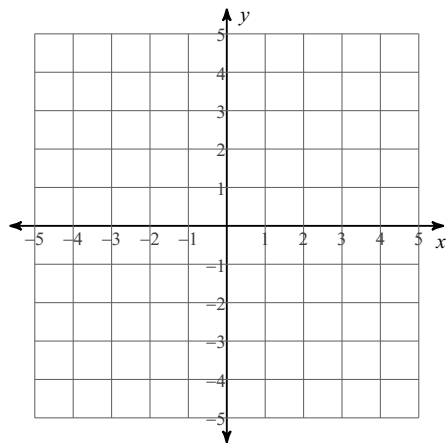


6) $y < 2x + 3$

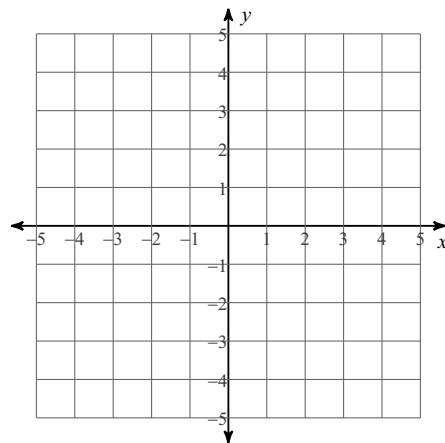


Sketch the solution to each system of inequalities.

7) $y < -4x + 1$
 $y > -x - 2$



8) $y \leq x - 2$
 $y < 6x + 3$



Solve each system by substitution.

$$\begin{aligned} 9) \quad y &= -7x + 22 \\ y &= 4x - 22 \end{aligned}$$

$$\begin{aligned} 10) \quad y &= -5x - 19 \\ y &= 2x + 2 \end{aligned}$$

$$\begin{aligned} 11) \quad y &= -3x - 21 \\ y &= 3 \end{aligned}$$

$$\begin{aligned} 12) \quad -6x - 4y &= 20 \\ y &= -4x - 10 \end{aligned}$$

$$\begin{aligned} 13) \quad 2x - 5y &= -9 \\ y &= -3x - 22 \end{aligned}$$

$$\begin{aligned} 14) \quad 3x - 5y &= -7 \\ y &= 2x - 7 \end{aligned}$$

Solve each system by elimination.

$$\begin{aligned} 15) \quad & -x + 2y = 4 \\ & x - 6y = -16 \end{aligned}$$

$$\begin{aligned} 16) \quad & x + y = 12 \\ & -4x - y = -30 \end{aligned}$$

$$\begin{aligned} 17) \quad & -8x - 4y = 16 \\ & -3x - 4y = 16 \end{aligned}$$

$$\begin{aligned} 18) \quad & -4x + 2y = -4 \\ & -x + 2y = 8 \end{aligned}$$

$$\begin{aligned} 19) \quad & -3x + 3y = 12 \\ & 8x - 9y = -26 \end{aligned}$$

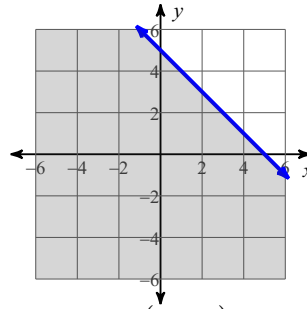
$$\begin{aligned} 20) \quad & 20x + 5y = 30 \\ & -10x - 2y = -12 \end{aligned}$$

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

1) (1, 3)

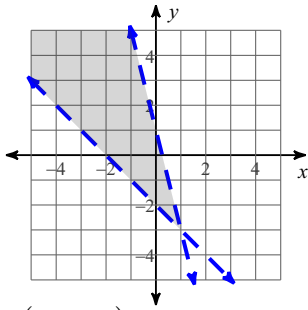
3) (3, 4)

5)



11) (-8, 3)

7)



9) (4, -6)

13) (-7, -1)

15) (2, 3)

17) (0, -4)

19) (-10, -6)