

Mixed Review 2

Solve each system by elimination.

$$\begin{aligned} 1) \quad & 10x + 12y = 16 \\ & 6x + 3y = -3 \end{aligned}$$

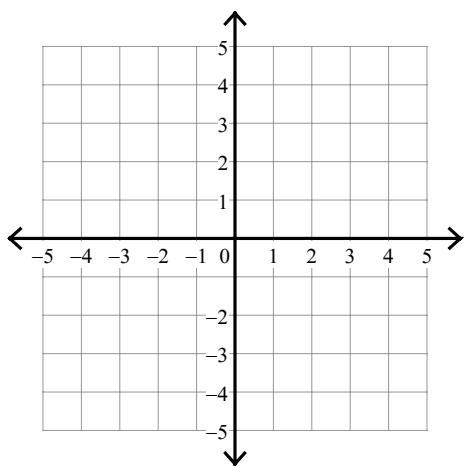
$$\begin{aligned} 2) \quad & 10x + 5y = 20 \\ & -20x + 2y = 8 \end{aligned}$$

$$\begin{aligned} 3) \quad & -2x = -16 + 2y \\ & -6 = -x - y \end{aligned}$$

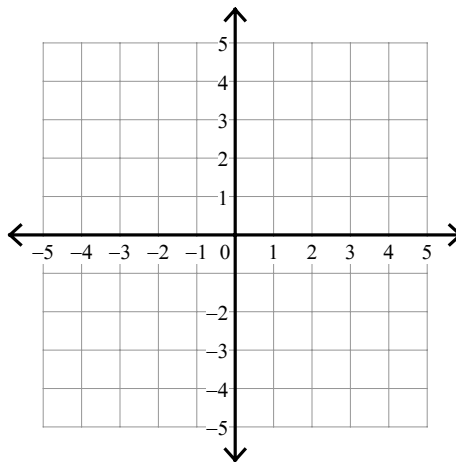
$$\begin{aligned} 4) \quad & -1 = -4y + 7x \\ & -12 - 20x = -16y \end{aligned}$$

Solve each system by graphing.

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

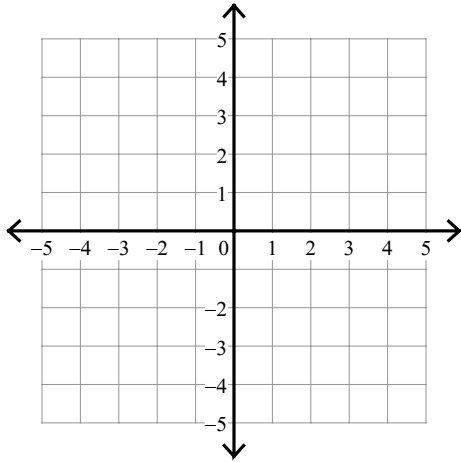


$$\begin{aligned} 6) \quad & y = x + 3 \\ & y = -5x - 3 \end{aligned}$$

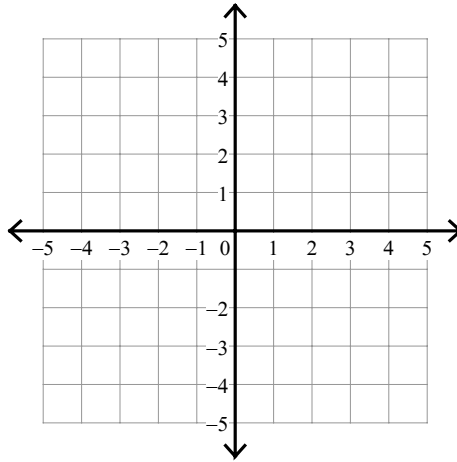


Sketch the solution to each system of inequalities.

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



$$8) \begin{aligned} y &\geq x + 1 \\ y &> -\frac{1}{2}x - 2 \end{aligned}$$



Write the slope-intercept form of the equation of the line through the given points.

9) through: $(2, -5)$ and $(3, -1)$

10) through: $(0, 3)$ and $(-2, 4)$

Write the slope-intercept form of the equation of the line described.

11) through: $(-3, -4)$, parallel to $y = x + 3$

12) through: $(-2, 3)$, parallel to $y = -\frac{3}{2}x - 1$

13) through: $(3, -3)$, perp. to $y = \frac{1}{2}x + 1$

14) through: $(4, -1)$, perp. to $y = -4x - 1$

Answers to Mixed Review 2 (ID: 1)

1) $(-2, 3)$

2) $(0, 4)$

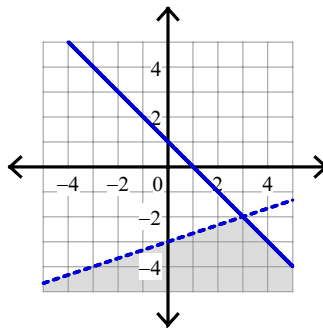
3) No solution

4) $(1, 2)$

5) $(-4, 2)$

6) $(-1, 2)$

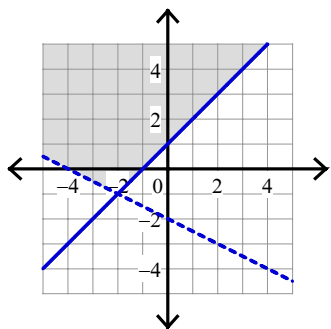
7)



8)

9) $y = 4x - 13$

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



11) $y = x - 1$

12) $y = -\frac{3}{2}x$

13) $y = -2x + 3$

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