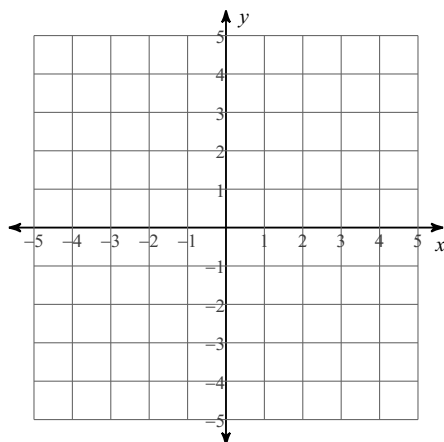


Solving Systems by Graphing, Substitution, or Elimination

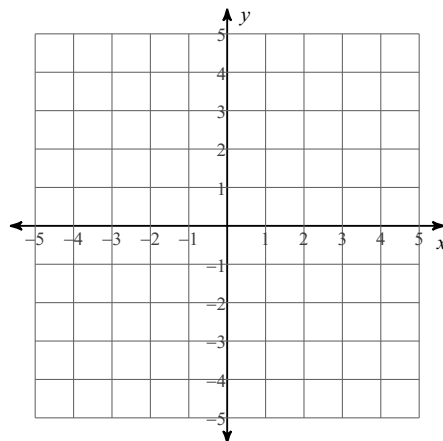
Period _____

Solve each system by graphing.

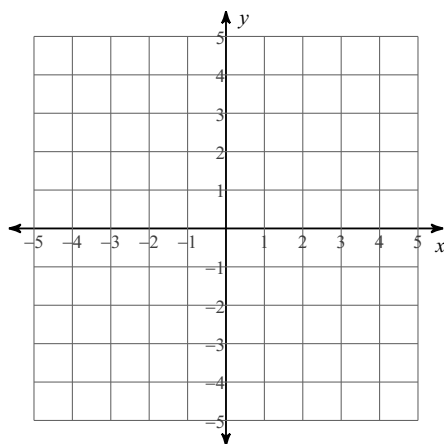
1) $y = 7x + 4$
 $y = -x - 4$



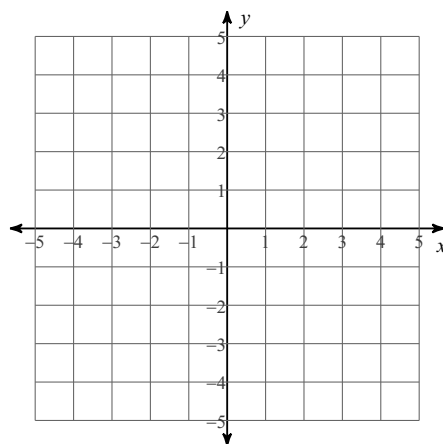
2) $y = -\frac{5}{2}x + 4$
 $y = x - 3$



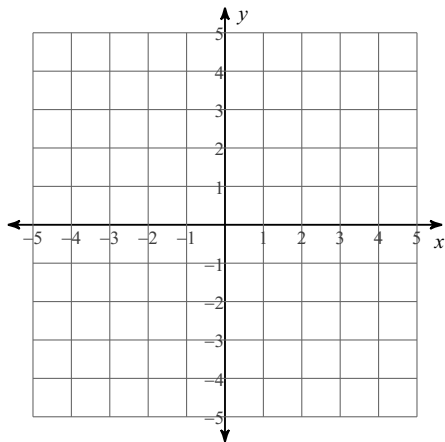
3) $y = -\frac{7}{3}x + 3$
 $y = -\frac{1}{3}x - 3$



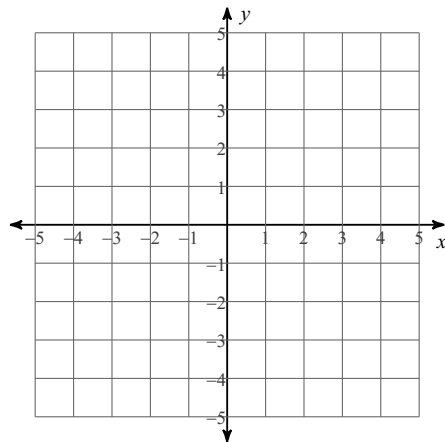
4) $y = \frac{5}{4}x - 2$
 $y = \frac{1}{4}x + 2$



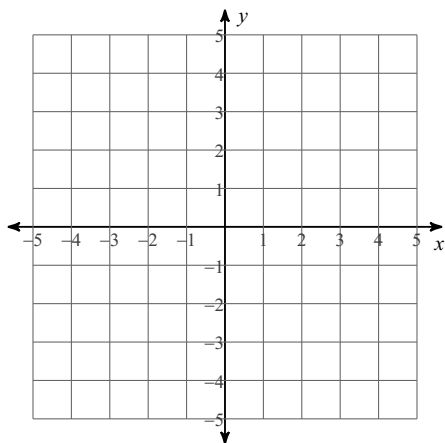
$$\begin{aligned} 5) \quad & x + 2y = 4 \\ & 5x - 2y = 8 \end{aligned}$$



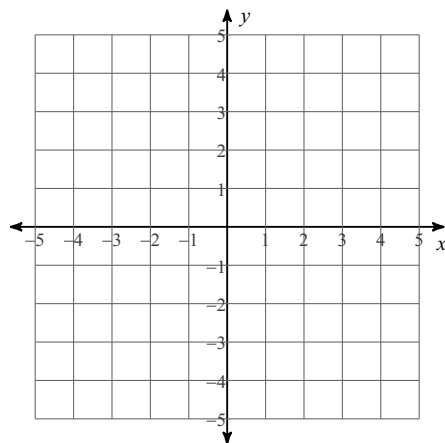
$$\begin{aligned} 6) \quad & 3x - y = 2 \\ & 3x + y = 4 \end{aligned}$$



$$\begin{aligned} 7) \quad & 7x - 4y = 16 \\ & x - 2y = -2 \end{aligned}$$



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



Solve each system by substitution.

$$\begin{aligned} 9) \quad & y = 5x + 21 \\ & y = x + 1 \end{aligned}$$

$$\begin{aligned} 10) \quad & y = -3x + 8 \\ & y = 2x - 17 \end{aligned}$$

$$\begin{aligned} 11) \quad & 4x - y = -14 \\ & y = -5x - 4 \end{aligned}$$

$$\begin{aligned} 12) \quad & y = -3x + 11 \\ & 6x + 4y = 14 \end{aligned}$$

$$\begin{aligned} 13) \quad & 6x - 2y = 12 \\ & -4x + y = -10 \end{aligned}$$

$$\begin{aligned} 14) \quad & 3x + y = -10 \\ & -6x - 5y = 14 \end{aligned}$$

$$\begin{aligned} 15) \quad & 4x + y = -1 \\ & -12x - 3y = 6 \end{aligned}$$

$$\begin{aligned} 16) \quad & x - 6y = -14 \\ & -2x + 12y = 28 \end{aligned}$$

Solve each system by elimination.

$$\begin{aligned} 17) \quad & -2x + 5y = 1 \\ & -x - 5y = 23 \end{aligned}$$

$$\begin{aligned} 18) \quad & -x - 3y = 8 \\ & x - 5y = -8 \end{aligned}$$

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

$$\begin{aligned} 20) \quad & 5x + 2y = -21 \\ & 5x + 2y = -26 \end{aligned}$$

$$\begin{aligned} 21) \quad & -x + 2y = 2 \\ & -9x + 3y = -12 \end{aligned}$$

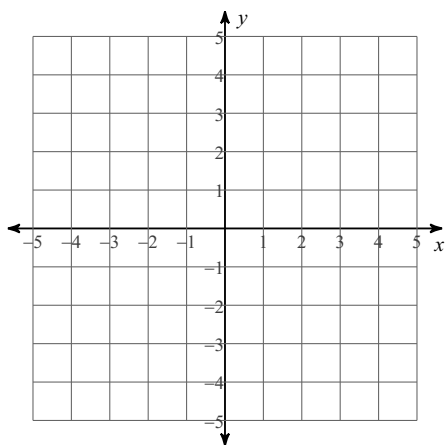
$$\begin{aligned} 22) \quad & 7x - 3y = -10 \\ & 4x + 6y = 2 \end{aligned}$$

$$\begin{aligned} 23) \quad & 2x + 3y = -19 \\ & 7x - 5y = 11 \end{aligned}$$

$$\begin{aligned} 24) \quad & -9x - 5y = -28 \\ & -5x - 8y = -26 \end{aligned}$$

Sketch the solution to each system of inequalities.

$$\begin{aligned} 25) \quad & 3x - 2y < 4 \\ & x + 2y \geq 4 \end{aligned}$$



$$\begin{aligned} 26) \quad & y > -\frac{5}{3}x + 2 \\ & y \geq -\frac{1}{3}x - 2 \end{aligned}$$

