

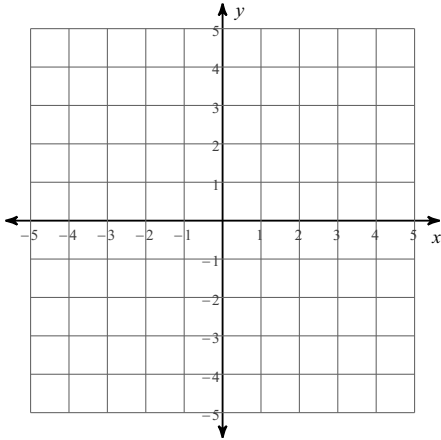
## Solving Systems

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

Solve each system by graphing.

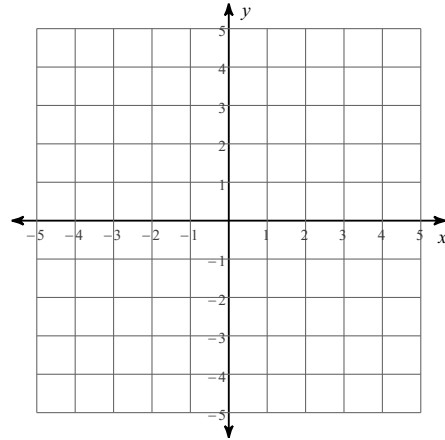
1)  $y = 3x - 3$

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

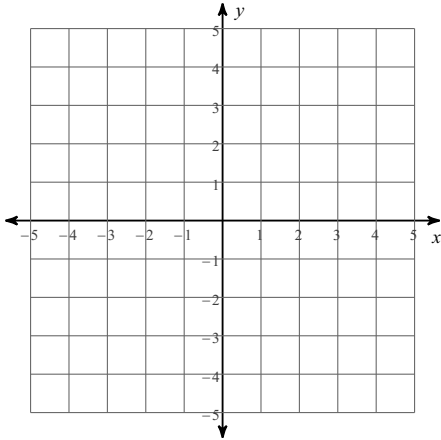


2)  $y = x + 2$

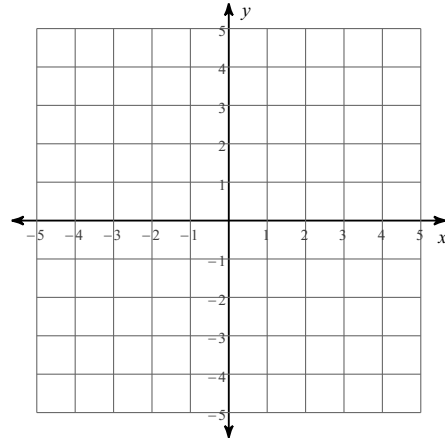
$$y = -\frac{1}{4}x - 3$$



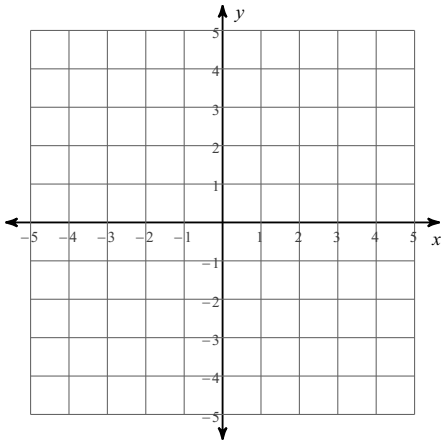
3)  $y = x - 2$   
 $y = 7x + 4$



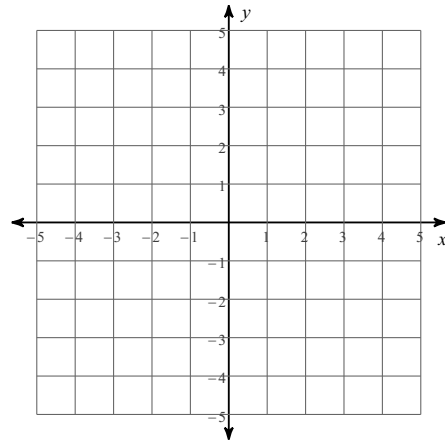
4)  $y = -3x + 2$   
 $y = -1$



5)  $y = x + 2$   
 $y = 4x - 1$



6)  $y = 2x + 1$   
 $y = -3$



Solve each system by substitution.

**STEP 1:** Solve one of the equations for  $x$  or  $y$ .

**STEP 2:** Substitute the first equation into the second for the variable solved for.

**STEP 3:** Solve for the second value in the coordinate pair solution.

**STEP 4:** State the intersection as a coordinate pair  $(x,y)$

$$\begin{aligned} 7) \quad & -3x - 6y = 0 \\ & x + 4y = 4 \end{aligned}$$

$$\begin{aligned} 8) \quad & x + 7y = 22 \\ & -4x + 5y = 11 \end{aligned}$$

$$\begin{aligned} 9) \quad & -5x - 3y = -7 \\ & x + 3y = 11 \end{aligned}$$

$$\begin{aligned} 10) \quad & -3x + y = 6 \\ & 5x - 4y = -3 \end{aligned}$$

$$\begin{aligned} 11) \quad & 4x - 8y = -16 \\ & x - 6y = -8 \end{aligned}$$

$$\begin{aligned} 12) \quad & -2x - y = 5 \\ & 7x + y = -20 \end{aligned}$$

$$\begin{aligned} 13) \quad & -x + y = 2 \\ & -5x - 5y = -10 \end{aligned}$$

$$\begin{aligned} 14) \quad & x - 3y = -10 \\ & 7x - 7y = -14 \end{aligned}$$