

Name:

Date:

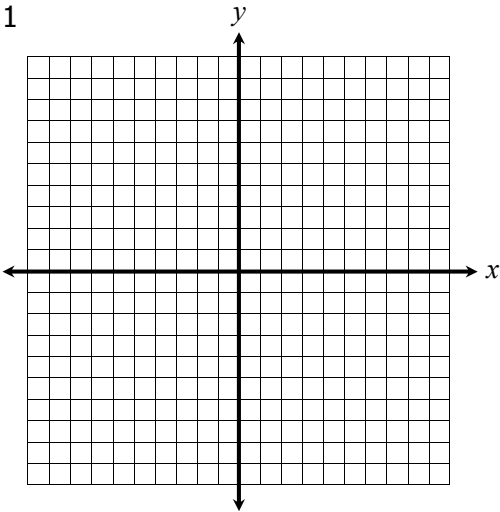
Topic:

Class:

Main Ideas/Questions	Notes/Examples		
<b>SYSTEMS OF EQUATIONS</b>			
<i>The SOLUTION to a System</i>	<b>Graphically:</b> The point $(x, y)$ where the two lines _____.		
	<b>Algebraically:</b> The point $(x, y)$ that makes both equations _____.		
<b>TYPES OF SOLUTIONS</b>	<b>INTERSECTING LINES</b>	<b>PARALLEL LINES</b>	<b>SAME LINE</b>
	<b>ONE SOLUTION</b>	<b>NO SOLUTION</b>	<b>INFINITE SOLUTION</b>
<b>SOLVING SYSTEMS BY GRAPHING</b>			

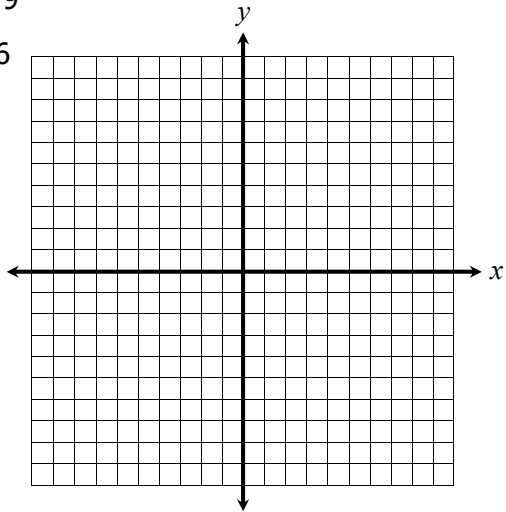
**Directions:** Solve each system of equations by graphing.

1. 
$$\begin{cases} y = x - 8 \\ y = -2x + 1 \end{cases}$$



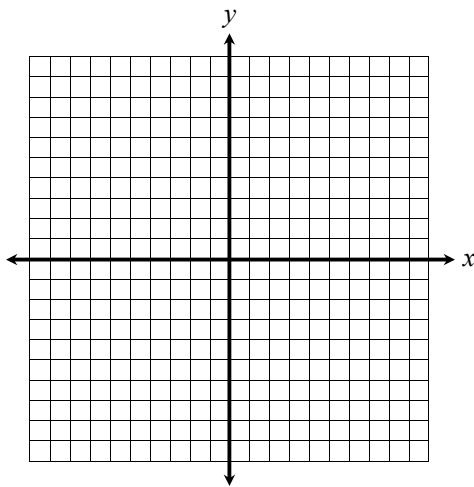
**Solution:**

2. 
$$\begin{cases} y = \frac{1}{2}x + 9 \\ y = -x + 6 \end{cases}$$



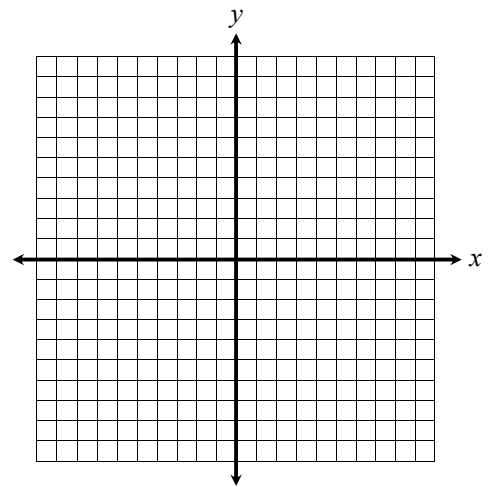
**Solution:**

$$3. \begin{cases} -3x + y = 8 \\ -x + y = -2 \end{cases}$$



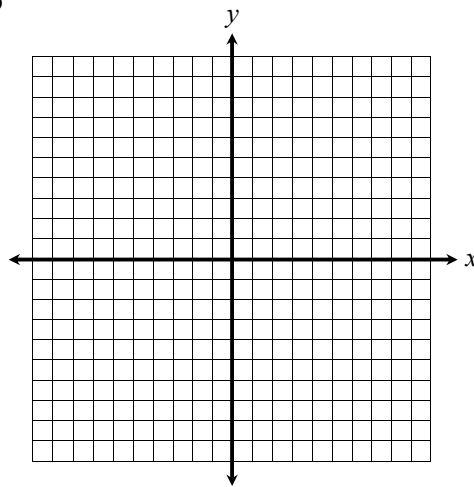
**Solution:**

$$4. \begin{cases} x + 2y = 4 \\ y = -\frac{1}{2}x + 2 \end{cases}$$



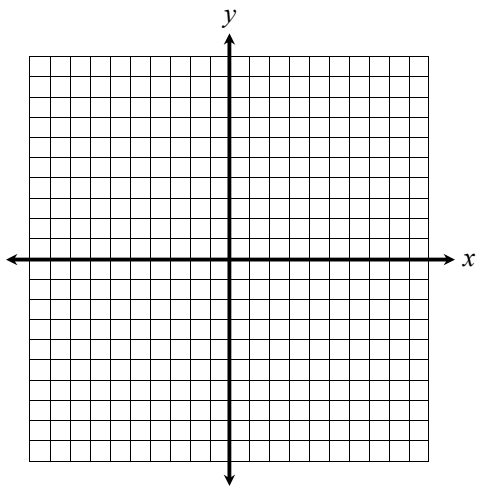
**Solution:**

$$5. \begin{cases} x + 3y = -15 \\ y = -7 \end{cases}$$



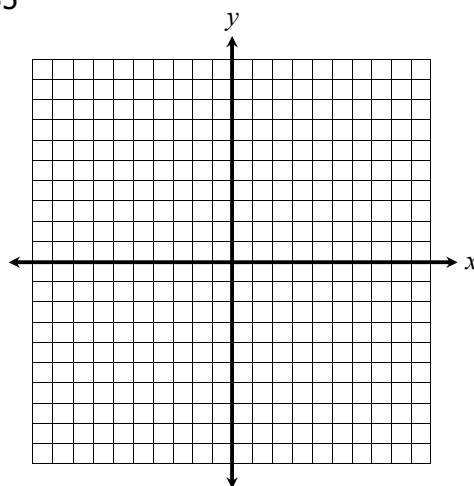
**Solution:**

$$6. \begin{cases} y = x + 5 \\ x - y = 2 \end{cases}$$



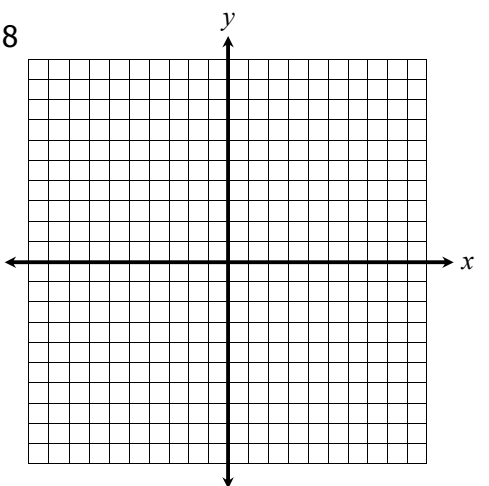
**Solution:**

$$7. \begin{cases} 3x - 5y = -35 \\ 2x + y = -6 \end{cases}$$



**Solution:**

$$8. \begin{cases} x = -2 \\ 3x - 2y = -18 \end{cases}$$



**Solution:**