You can solve systems of equation by substitution.

$$-2x + 4y = 2$$

$$x + y = 8$$

St	ep 1	Solve one of the equations for one of the variables.
x ·	+y=8	← Write the second equation.
y :	= -x + 8	$\leftarrow$ Subtract x from both sides.

Step 2	Substitute $-x + 8$ for y in the other equation.	
-2x + 4y = 2	← Write the first equation.	
-2x + 4(-x + 8) = 2	← Substitute $-x + 8$ for $y$ .	
-2x - 4x + 32 = 2	← Use the Distributive Property.	
-6x + 32 = 2	← Simplify.	
-6x = -30	← Subtract 32 from each side.	
x = 5	← Divide each side by −6.	

Step 3	Substitute 5 for $x$ in either equation and solve for $y$ .	
x+y=8	← Write either equation.	
5+y=8	$\leftarrow$ Substitute 5 for x.	
y = 3	← Subtract 5 from both sides.	
The solution is $(5,3)$ .		

1. 
$$y = -x + 1$$
  
 $-2x - y = 2$ 

**2.** 
$$2x + y = 6$$

$$6x-y=2$$

3. 
$$4x - y = 2$$

$$2x + y = 10$$

Keep this sheet with your notes as a guide.

You now have a practice worksheet (one problem). You can talk with your table partners about how you are going to set up the equations and solve for the soution.

ne: (	Class Period :	
Solve the system of equations by substitut Check your answer.	$ \begin{aligned} -2x + y &= 3 \\ 3x - 2y &= 0 \end{aligned} $	