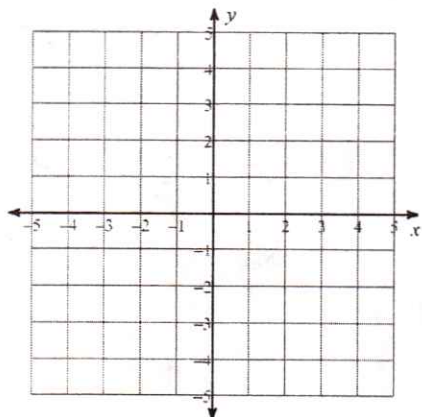


Unit 7 Day 1 Practice

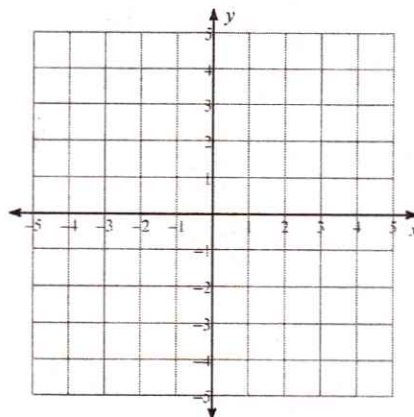
Date _____ Period _____

Solve each system by graphing.

1) $y = -x + 4$
 $y = 6x - 3$



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

**Solve each system by substitution.**

3) $3x - 3y = 9$
 $y = x - 3$

4) $8x + 2y = -14$
 $y = -8x - 15$

5) $6x + 2y = 3$
 $y = -3x - 6$

6) $y = 3x + 20$
 $y = x + 6$

Steps for Solving a System by Substitution

Example:

$$y = x + 1$$

$$2x + y = -2$$

Step 1: Select the equation that already has a variable isolated.	Step 2: Substitute the expression from Step 1 into the other equation for the variable you isolated in step 1 and solve for the other variable.	Step 3: Substitute the value from Step 2 into the revised equation from Step 1 and solve for the other variable. Create a point from your solutions.	Step 4: Check the solution in each of the original equations.

Example: Solve the system below:

$$2x + 2y = 3$$

$$x = 4y - 1$$

Example: Solve the system below:

$$y = x + 1$$

$$y = -2x + 4$$

Example: Solve the system below:

$$x = 3 - y$$

$$x + y = 7$$

Example: Solve the system below:

$$y = -2x + 4$$

$$4x + 2y = 8$$

When the variables drop out and the resulting equation is **FALSE**,
the answer is **NO SOLUTIONS**.

When the variables drop out and the resulting equation is **TRUE**,
the answer is **INFINITE SOLUTIONS**.

		Number of Solutions		
		1 Solution	Infinitely Many Solutions	No Solution
	Substitution	When using either substitution or elimination, you should get a value for either x or y. You should be able to find the other value by substituting either x or y back into the original equation.	When using either substitution or elimination, you will get an equation that has no variable and is always true .	When using either substitution or elimination, you will get an equation that has no variable and is never true .
	Elimination		For example: $2=2$ or $-5=-5$	For example: $0=6$ or $-2=4$