Algebra I WKST Rev 2012 Name: _____

7.1: Graphing Systems Date: _____ Period: _____

Determine whether the ordered pair is a solution of the linear system.

1) $\begin{cases} x+y=-2 \\ x+5y=2 \end{cases}; (-3,1)$

2) $\begin{cases} 2x-3y=4 \\ 2x+8y=11 \end{cases}; (5,2)$

3) $\begin{cases} 6x+5y=-7 \\ x-2y=0 \end{cases}; (-2,1)$

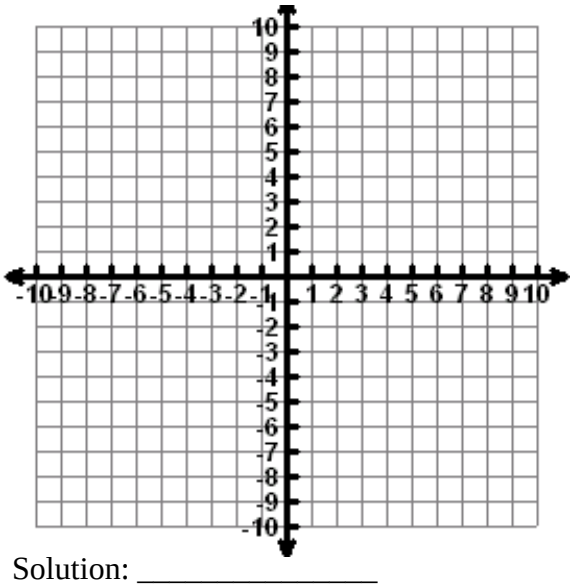
Is it a solution? Circle one: **YES NO**

Circle one: **YES NO**

Circle one: **YES NO**

Solve each system by graphing. Write your solution as an ordered pair. Then, circle whether the solution is consistent, inconsistent, dependent, &/or independent. Plot at least 5 points & use a ruler to draw lines.

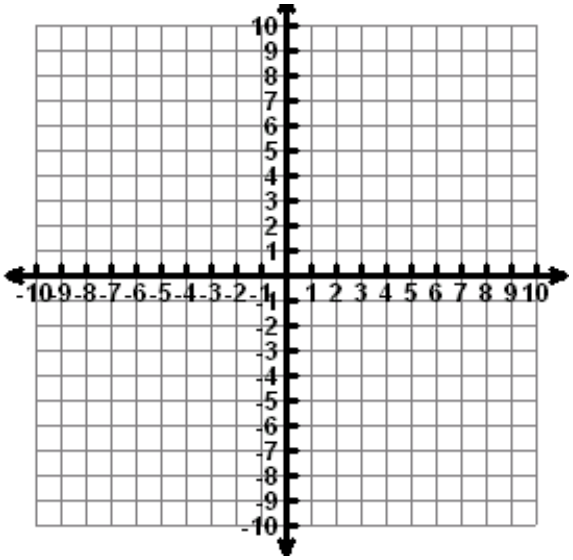
4) $\begin{cases} y=-x-2 \\ y=\frac{2}{3}x+3 \end{cases}$



Solution: _____

Consistent Inconsistent Independent Dependent

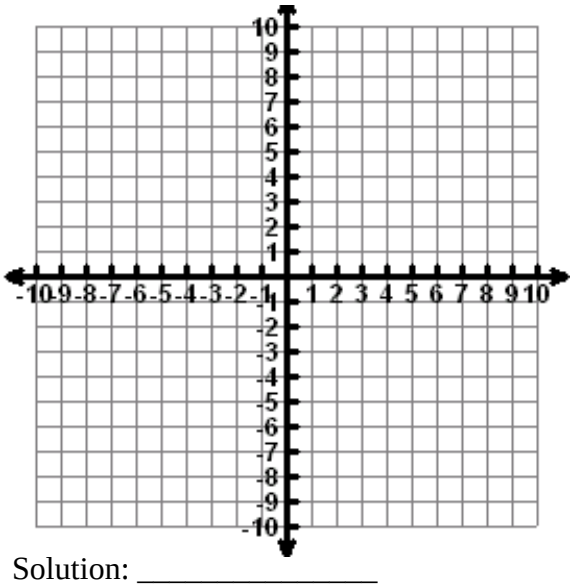
5) $\begin{cases} y=\frac{1}{2}x+1 \\ y+2=x \end{cases}$



Solution: _____

Consistent Inconsistent Independent Dependent

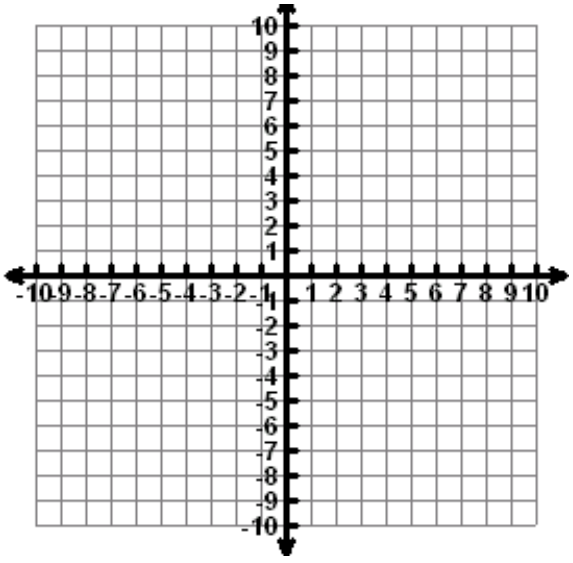
6) $\begin{cases} 2y=2x-4 \\ y=x+2 \end{cases}$



Solution: _____

Consistent Inconsistent Independent Dependent

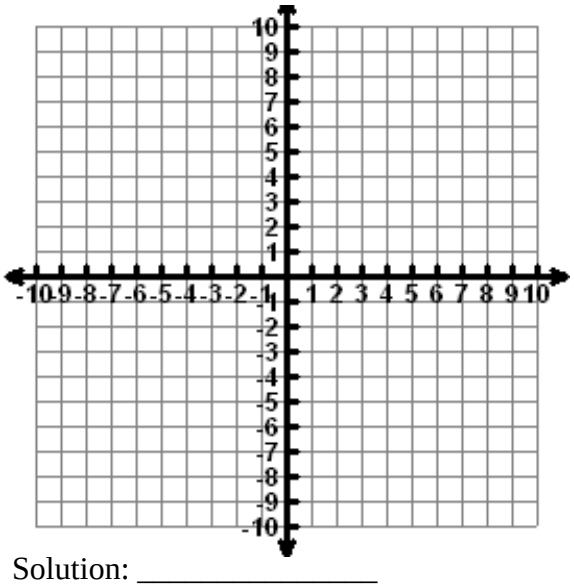
7) $\begin{cases} -3x+2y=-2 \\ y=\frac{1}{2}x-1 \end{cases}$



Solution: _____

Consistent Inconsistent Independent Dependent

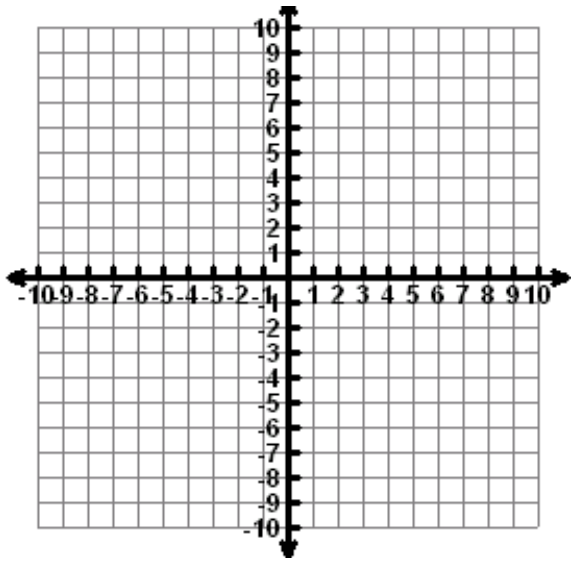
8) $\begin{cases} y = \frac{3}{5}x + 6 \\ y = \frac{1}{5}x + 4 \end{cases}$



Solution: _____

Consistent Inconsistent Independent Dependent

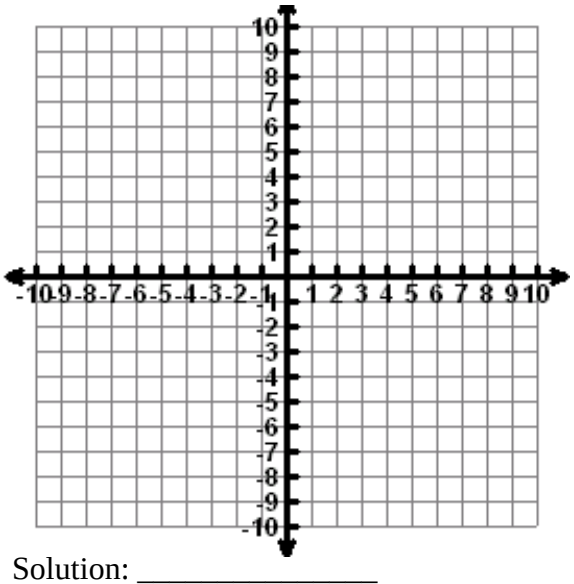
9) $\begin{cases} 2x + 3y = 6 \\ y = -\frac{2}{3}x + 2 \end{cases}$



Solution: _____

Consistent Inconsistent Independent Dependent

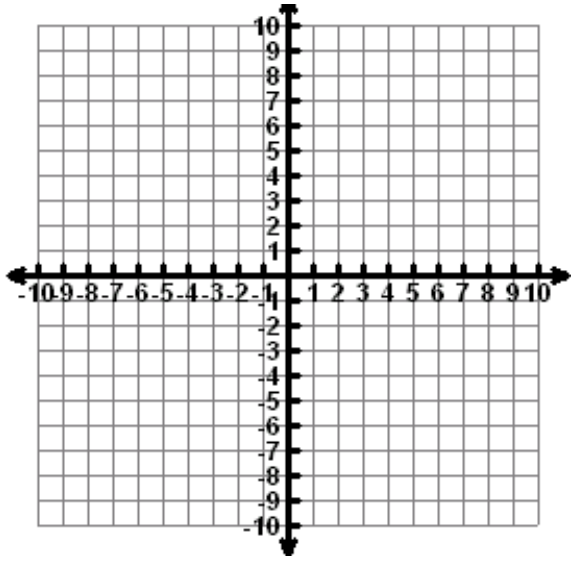
10) $\begin{cases} -2x + 3y = 3 \\ -5x + 3y = 12 \end{cases}$



Solution: _____

Consistent Inconsistent Independent Dependent

11) $\begin{cases} y = -3x + 6 \\ y = -3x - 2 \end{cases}$



Solution: _____

Consistent Inconsistent Independent Dependent

12) What are two ways to check your solution on your graphing calculator?

A. _____

B. _____