Pre-AP Algebra II   Name: _____

Assignment #14   **Period:** _____

[Due on Monday 10/28/19]

Directions: Use the given ordered pair to determine if it is a solution to the system of linear equations.

[Notes #44]

1. $(2,\ 1);$ $\begin{cases} x+2y=4 \\ 3x-2y=4 \end{cases}$

2. $(-3,\ 2);$ $\begin{cases} x+3y=3 \\ 3x-2y=13 \end{cases}$

Directions: Solve each system by graphing.

[Notes #44]

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

4. $\begin{cases} x+3y=6 \\ -6y-2x+12=0 \end{cases}$

5. $\begin{cases} 2x+4y=12 \\ x+y=2 \end{cases}$

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

7. $\begin{cases} y=2 \\ y-4=x \end{cases}$

8. $\begin{cases} x=4 \\ y=-7 \end{cases}$

Directions: Solve the following systems of inequalities by graphing.

[Notes #44]

9. $\begin{cases} y\le 2x+2 \\ y<-x+1 \end{cases}$

10. $\begin{cases} -2y<4x+2 \\ y>2x+1 \end{cases}$

11. $\begin{cases} -x-y\le 2 \\ y-2x>1 \end{cases}$

12. $\begin{cases} x<-3 \\ x>-3 \end{cases}$

13. $\begin{cases} y<x \\ x\ge 2 \end{cases}$

Directions: Use the <u>elimination</u> method to solve each of the systems of equations below.

[Notes #45-46]

14. $\begin{cases} 2x+3y=12 \\ 8x-6y=24 \end{cases}$

15. $\begin{cases} 5x+2y=7 \\ 3x+7y=10 \end{cases}$

16. $\begin{cases} 3x-y=4 \\ 2x-3y=-9 \end{cases}$

Directions: Use the <u>substitution</u> method to solve each of the systems of equations below.
[Notes #45-46]

17. $\begin{cases} y = x + 4 \\ y = 3x \end{cases}$

18. $\begin{cases} 2x + 4y = -6 \\ x - 3y = 7 \end{cases}$

19. $\begin{cases} 3x + 5y = 2 \\ x + 4y = -4 \end{cases}$