**Assignment: Systems by Graphing**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_

**Solve each system by graphing.**

1. $y+x=5$ 2. $3y+6x=3$ 3. $x-y=0$

$y-3x=1$ $x-y=-7$ $8x+4y=-24$

![[image]]()![[image]]()![[image]]()

Solution: \_\_\_\_\_\_\_\_\_\_

Solution: \_\_\_\_\_\_\_\_\_\_

Solution: \_\_\_\_\_\_\_\_\_\_

4. $x-y=-1$ 5. $2+y=x$ 6. $4y-2x=4$

 $4x-2y=2$ $x+y=4$ $10x-5y=10$

![[image]]()![[image]]()![[image]]()

Solution: \_\_\_\_\_\_\_\_\_\_

Solution: \_\_\_\_\_\_\_\_\_\_

Solution: \_\_\_\_\_\_\_\_\_\_

7. $2x-3y=-15$ 8. $2x+2y=-10$ 9. $8y-24x=64$ $3y-2x=15$ $4x+4y=16$ $9y+45x=72$

![[image]]()![[image]]()![[image]]()

Solution: \_\_\_\_\_\_\_\_\_\_

Solution: \_\_\_\_\_\_\_\_\_\_

Solution: \_\_\_\_\_\_\_\_\_\_

**Determine if the given ordered pair is a solution to the system of equations. Show Work!**

10. $ (-2,2)$ 11. $ (-3,-5)$ 12. $ (6,1)$

 $x+y=0$ $2y-6x=8$ $y=8x+2$

 $7y-14x=42$ $4y=8x+4$ $x-3y=3$

**Write the system of equations shown on the graph. State the solution to the system.**

13. 14.

System: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_

System: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_