Exam Review #3 Graphing Linear Functions Algebra 1 Kitt/Baker

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_

**Unit 7: Graphing Linear Equations**

**Part 1: Finding the slope of a line.**

**Directions**: *Find the slope of the line using the slope formula*: $m=\frac{y\_{2}-y\_{1}}{x\_{2}-x\_{1}}$

1. $\left(4,2\right) (5,-1)$ 2. $\left(-1,9\right) (2,9)$ 3. $\left(6,2\right) (-3,2)$ 4. $\left(3,-5\right) (3,6)$

**Directions**: Find the slope of the line using: $m=\frac{rise}{run}$

5. 6. 7.

Directions: Graph the following equations in slope intercept form $y=mx+b$

8.  9.  10. 

 m:\_\_\_\_\_ m:\_\_\_\_\_ m:\_\_\_\_\_

 b:\_\_\_\_\_ b:\_\_\_\_\_ b:\_\_\_\_\_

**Directions**: *Identify the slope and y –intercepts of the following equations. Do not graph!!!*

11. $y=x$ 12. $y=5$ 13. $x=-2$ 14. $y=-2x$ 15. $2x+3y=6$

 m:\_\_\_\_\_ m:\_\_\_\_\_ m:\_\_\_\_\_ m:\_\_\_\_\_

 b:\_\_\_\_\_ b:\_\_\_\_\_ b:\_\_\_\_\_ b:\_\_\_\_\_

**Directions**: *Respond to the following questions.*

16. What do the letters of H.O.Y. stand for in terms of graphing linear equations?

17. What do the letters of V.U.X. stand for in terms of graphing linear equations?

18. Describe the four types of slopes. You can either draw and label or describe in words.

Directions: Graph the following special cases.

 19. $x=-4$ 20. $y=2$