Exam Review #2 Functions and Graphs Algebra 1 Kitt/Baker

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

**Unit 6: Graphs and Functions**

**Part 1: Vocabulary**

 **Directions**: *Match each vocabulary term by placing the correct letter in the space provided next to each number.*

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| \_\_\_\_\_\_\_\_1. Function | 1. The y- values in a relation or ordered pair.
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|  \_\_\_\_\_\_\_\_2. Relation | 1. A location on a graph denoted by $(x,y)$
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| \_\_\_\_\_\_\_\_3. Quadrants | 1. The reverse of a point ex: $(y,x)$
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| \_\_\_\_\_\_\_\_4. domain | 1. The proportional distance between two points.
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| \_\_\_\_\_\_\_\_5. range | 1. The x-values in a relation or ordered pair.
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| \_\_\_\_\_\_\_\_6. inverse | 1. A set of ordered pairs.
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| \_\_\_\_\_\_\_\_7. slope | 1. A set of ordered pairs with unique x-values.
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| \_\_\_\_\_\_\_\_8. Ordered pair | 1. When the graph is divided into four parts, each is identified as this.
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**Part 2: Relations**

**Directions**: Use the following relation to answer the questions.

 $\{\left(2,1\right);\left(-3,1\right);\left(-4,-5\right);\left(4,2\right);\left(-3,6\right)\}$

9. What is the domain?

10. What is the range?

11. Is this a relation a function? Why or why not?

12. What is the inverse?

13. Does the inverse form a function? Why or why not?

**Directions**: Given $f(x)$ and $g(x)$ evaluate the function.

 $f\left(x\right)=2x+1$ $g\left(x\right)=x^{2}+3x$

14. $f(-4)$ 15. $g(2)$ 16. $f(10)$ 17. $g(-4)$

18. **Directions**: Given the equation: $y=-2x+3$, do the following:

 A. Use the domain {-1, 0, 3} to find the range. (Hint: Make a table with four columns).

 B. Graph your result below.