**Course 3 Quiz Review Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Functions and Relations**

**Part I: The Coordinate Plane. Identify and label the points on the coordinate plane below:**

1) Plot A (3, -3)

 Location: \_\_\_\_\_\_\_\_

2) Plot B (0, -2)

 Location: \_\_\_\_\_\_\_\_

3) Plot C (5, 0)

 Location: \_\_\_\_\_\_\_\_

4) Identify point K: \_\_\_\_\_\_\_\_\_\_

5) Identify point L: \_\_\_\_\_\_\_\_\_\_\_

6) Identify point M: \_\_\_\_\_\_\_\_\_\_

 

**Part II: To Be or Not to Be … A Function**

**Do the following relationships represent functions? Explain your answer.**

|  |  |
| --- | --- |
| ***x*** | ***y*** |
| 2 | 5 |
| 4 | 7 |
| 8 | 5 |
| 2 | 2 |

 7. 8.

|  |  |
| --- | --- |
| ***x*** | ***y*** |
| 3 | 6 |
| 5 | 10 |
| 6 | 6 |
| 9 | –2 |

 9.  10. 

11. 12.

 2 -2 2

 4 -4

 6 7

 8 -8

**# 13 – 14 Given the following linear function, complete the table of values and graph on the coordinate plane provided. Then, identify the domain and range of the table of values.**

13. **Function Rule: Table: Graph:**

|  |  |
| --- | --- |
| **Input x** | **Output****y** |
| **-2** |  |
|  **-1** |  |
|  **0** |  |
|  **2** |  |
|  **3** |  |

****

 **y = 2x + 1**

Domain: \_\_\_\_\_\_\_\_\_\_

 Range: \_\_\_\_\_\_\_\_\_\_\_

14. **Function Rule: Table: Graph:**

|  |  |
| --- | --- |
| **Input x** | **Output****y** |
| **-6** |  |
|  **-3** |  |
|  **0** |  |
|  **3** |  |
|  **6** |  |

****

 **y = x - 2**

 **3**

 Domain: \_\_\_\_\_\_\_\_\_\_

 Range: \_\_\_\_\_\_\_\_\_\_\_

15. Identify the range of the function **y = x2 + 1** for the domain {-4, 5, 8}.

# 16 – 17 Complete the table for each equation.



16. 17.



 Remember to solve for x by using

 inverse operations……..

Make sure that you know the vocabulary!!!!!!