Algebra Plus Mathematician: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_\_\_\_\_\_\_\_

Chapter 2 Study Guide MUST SHOW WORK!!! This is a Rough Grade Breakdown

1st Target**: Graphing Equations of Lines** \_\_\_\_ / 14 pts Pass / Revisit

2nd Target**: Finding Slope** \_\_\_\_/ 10 pts Pass / Revisit

3rd Target: **Domain/Range** \_\_\_\_ / 6 pts Pass / Revisit

4th Target**: Writing Equations of Lines** \_\_\_\_/ 24 pts Pass / Revisit

5th Target: **Scatter Plots/Solutions** \_\_\_\_ / 12 pts Pass / Revisit

1st Target**: Graphing Equations of Lines**

|  |  |
| --- | --- |
| 1. Graph | b. Graph |
| 1. Graph | 1. Graph | |
| 1. Graph | 1. Graph | |

2nd Target**: Finding Slope**

|  |  |
| --- | --- |
| a. Find the slope between (3, 2) and (5, 12) | b. Find the slope between (-2, -5) and (4, -1) |
| 1. For A(1, 7) and B(-1, 4), find the slope of the line that is parallel to .   A.  B. -3 C.  D.  E. None of these | 1. For (-6, 5) and (3, -13), find the slope of the line that is parallel to . |

**3rd Target: Domain/Range**

|  |  |
| --- | --- |
| 1. Identify the domain and range. Then, determine if each relation is a function. (*2 pts*)   a.) {(2, 3), (-1, 4), (6, 3), (0, 8)} | 1. Identify the domain and range. Then, determine if each relation is a function. (*2 pts*)   -4  1  3  -1  0  1  2 |
| 1. Determine if the following is a function:   (*1 pts*) | 1. Determine if the following is a function:   (*1 pt*) |

4th Target**: Writing Equations of Lines**

|  |  |
| --- | --- |
| 1. Using **Slope-Intercept**, write the equation of the line if the slope is and passes through the point (2, 8). | 1. Using **Slope-Intercept**, write the equation of the line if the slope is and passes through the point (6, -5) |
| 1. Write the equation of the line that passes through the point (-1, 3) and (5, 15). | 1. Write the equation of the line that passes through the point (7, -4) and (3, 4). |

5th Target**: Scatter Plots and Solutions**

|  |  |
| --- | --- |
| a. Which graph represents a positive correlation? | b. Estimate the r values for the following scatterplots (*3 pts*) |

|  |  |
| --- | --- |
| 1. What is the solution for the following lines? | 1. What is the solution for the following lines? |

1. What is the solution for the following lines?