Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour: \_\_\_\_\_\_\_\_\_\_\_

**Algebra 1**

**Chapter 2, Sections 5-6 Quiz REVIEW**

**Part 1:** Each problem below……

* Write the equation of the line with the given information in **point-slope form**
* Write the equation of the line in **slope-intercept form**
* Identify the **slope** and **y-intercept** of the equation
* **Graph** the equation

1. m = -1/3 (-3, -5)

 **Point-Slope form: Slope-Intercept form:**

 **Slope = \_\_\_\_\_\_\_\_\_\_** 

 **Y-Intercept = \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2. (-2, 5) (6, 1)

 **Point-Slope form: Slope-Intercept form:**

 **Slope = \_\_\_\_\_\_\_\_\_\_** 

 **Y-Intercept = \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

3. (2, -7) (4, 7)

 **Point-Slope form: Slope-Intercept form:**

 **Slope = \_\_\_\_\_\_\_\_\_\_** 

 **Y-Intercept = \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

4. m = 0 (-3, 5)

 **Point-Slope form: Slope-Intercept form:**

 **Slope = \_\_\_\_\_\_\_\_\_\_** 

 **Y-Intercept = \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Part 2:** Answer each question below:

5. Write the equation of the line that passes through (-5, -2) and is **parallel** to the line y = 3/5x - 2.

6. Write the equation of the line that passes through (0, 4) and is **perpendicular** to the line y = -2/3x +1.

7. Write the equation of the line that passes through (-3, 1) and is **parallel** to the line y = 1/3x – 2.

8. Write the equation of the line that passes through (1, 4) and is **perpendicular** to the line y = 1/2x + 1.

**Part 3:** Complete each review problem (these problems come from sections 1-4):

9. Find the slope of the line through the points (-4, 6) (2, 2).

10. Find the slope of the line from the following table: 

11. Identify the X and Y-intercepts: 12. Identify the X and Y-intercepts: **3x – 2y = 12**

 