Algebra Mathematician:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Quiz 2.1-2.3

**Graph the following equations:** *(Hint: Get the second equation into y = mx + b first)*

1. y = $2x-3$ *(2 pts)* 2. y = $-\frac{3}{2}x+1$ *(3 pts)*



**Find the slope between the ordered pairs**. *(2 pts each)*

3. (10, -7) (8, -4) 4. (1, -2) (3, 6) 5. (2, 3) (1, -5)

**Put the following equations into slope intercept form, then identify the slope and y intercept.**

6. 2y - 6x = 18 *(4 pts)* 7. 5x + 3y = -3 *(4 pts)*

Slope: \_\_\_\_\_\_\_\_ Slope: \_\_\_\_\_\_\_\_

Y-Intercept: \_\_\_\_\_\_\_ Y-Intercept: \_\_\_\_\_\_\_

**Find the slope to write an equation in slope-intercept form.** *(3 pts each)*

8. (7, 4) (8, -1) 9. (-4, 0) (2, 3)

**Given the following, find the equation of a line in slope-intercept form.**

10. $m=-2$ , *b* = 10 *(1 pt)* 11. $m=\frac{1}{2}$ (8, 9) *(3 pts)* 12. (1, -2) (4, 7) *(4 pts)*

Extra Credit (MUST TRY IT!)

Write the equation of the line. Also state the slope of the line. *(1 point each answer)*

13) 14)

Slope of line: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Slope of line: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation of line: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation of line: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_