Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ October 19, 2017

Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Math 8

**Unit 3 Quiz Review**

**\_\_\_1.**  What Quadrant does the point (-5,4) lie in?

1. Quadrant I
2. Quadrant II
3. Quadrant III
4. Quadrant IV

**\_\_\_2.**  Which of the following equations represents a horizontal line?

1. y = -3
2. x = 5
3. y = 5x -5
4. y = -4x

**\_\_\_3.** Which of the following is the domain of the following relation?

{ (0,-1), (1,3), (4,2), (9,10), (13,20) }

1. {-1, 3, 2, 10, 20}
2. {0, 1, 4, 9, 13}
3. {0,-1, 3, 9, 20}
4. {-1, 3, 2, 10, 13}

**\_\_\_4.** Which of the follow equations represents a vertical line?

1. x = 9
2. y = 10x – 9
3. y = 12
4. y = -12x

**\_\_\_5.** Which Statement is **not** true about functions?

1. The graph fails the vertical line test
2. The graph passes the vertical line test
3. Every x value has only one y value
4. Each member of the domain maps to only one member of the range

\_\_\_**6.** For the equation $y= \frac{1}{4}x+4$, what are some values for x that would ensure that y would be a whole number?

1. 3, 6, 9, -12
2. -5, 0, 5, 10
3. -2, 0, 2, 6
4. -4, 0, 4, 8

**\_\_\_7.** Which of the following is a function?

1.  **(c)** 
2.  **(d)**

**\_\_\_8.** What is the y-intercept of the following line: $y= \frac{5}{2}x+4$

1. $\frac{-2}{5} $ **(b)**  4 **(c)** $\frac{5}{2}$ **(d)** -4

**For 8-10: Find the domain and range.**

**Then create a Mapping Diagram to determine if the relation is a function**

8) { (1,-2), (2,-14), (3,-6) } Mapping Diagram:

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

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

Function?\_\_\_\_\_\_\_\_\_\_

1. {(1,2), (4,3), (1,4), (-1,5)} Mapping Diagram:

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

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

Function?\_\_\_\_\_\_\_\_\_\_\_\_

1. { (5,0), (-4,0), (0,0), (1,0), (2,0) } Mapping Diagram:

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

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

Function?\_\_\_\_\_\_\_\_\_\_

**Pick values for x and make a table, then graph the equation:**



1. y = 3x + 2





1. $y= \frac{-1}{3}x-3$



1. y = -4x + 1
2. Find the x and y intercepts algebraically for the line:

2x + 3y = 12

**Part A: Graph the following points.**

**Part B: Draw the line that passes through them**

**Part C: Identify the x and y intercepts**

1. { (-4,3), (0,1), (4,-1), (6,-2) } x-intercept\_\_\_\_\_\_\_\_\_\_\_\_



 y-intercept\_\_\_\_\_\_\_\_\_\_\_\_

1. { (-6,-4), (-3,0), (0,4), (4,8) }



 x-intercept: \_\_\_\_\_\_\_\_\_\_

 y-intercept: \_\_\_\_\_\_\_\_\_\_