Stained Glass Window Project

Name_____ **Period**_____

You will create a stained glass image using your knowledge of graphing linear equations. From the list below you will need to graph 12 lines on your graph. 3 of the lines must be horizontal lines, 3 of the lines must be vertical lines, 3 of the lines must have a positive slope and 3 of the lines must have a negative slope. Once you have chosen your lines put them in the correct category below and graph them correctly on you graph. Write the equation neatly on each line on your graph. When you are done graphing the equations color each section to create your stained glass window design. This will be worth a quiz grade. This is due FRIDAY September 20th.

$x = -8$	$y = -9$	$y = x + 5$	$y = -x - 9$
$y = 2x - 7$	$y = -2x + 8$	$y = -5$	$x = -5$
$y = -2$	$x = -1$	$y = -1/3\,x - 3$	$y = 4x + 8$
$y = -\frac{1}{4}x + 5$	$y = 1$	$x = 2$	$y = 2x + 18$
$x = 7$	$y = 6$	$y = \frac{1}{4}x - 6$	$y = -2x$
$y = -x + 12$	$y = \frac{1}{2}x - 3$	$y = 8$	$x = 9$

Chosen Equations:

Horizontal Equations:
Vertical Equations:
Positive Slope Equations:
Negative Slope Equations:

Rubric:

Horizontal Lines were correctly chosen from the list and graphed correctly	1	2	3	4	5
Vertical Lines were correctly chosen from the list and graphed correctly	1	2	3	4	5
Positive Slope Lines were correctly chosen from the list and graphed correctly	1	2	3	4	5
Negative Slope Lines were correctly chosen from the list and graphed correctly	1	2	3	4	5
Work is Neat and Colored (Lines are straight, lines are labeled clearly, and the stained glass is colorful)	1	2	3	4	5

Grade _____ x 4 =_____