

Name: _____

Date: _____ Class: _____

Stained Glass Blueprints

1) Graph the following lines on your graph paper using pencil. Make sure that your lines are straight by using a ruler. Extend the lines to the edge of your paper.

1) $y = -3/2x + 14$

2) $y = 3/2x + 14$

3) $y = 3/2x - 14$

4) $y = -3/2 - 14$

5) $y = 1x + 0$

6) $y = -1x + 0$

7) $y = -4/3x + 6$

8) $y = 4/3x + 6$

9) $y = 4/3x - 6$

10) $y = -4/3x - 6$

2) After you have graphed all the lines, plot these points within the design. Connect them in the order they are given. For example, graph the point (0,7). Then graph the point (-2,-10). You will then connect those two points together. When you have reached a STOP, you have completed a shape. Pick up your pencil and start the next column without connecting it to the previous one. After you have finished graphing all the lines, color your design to create a stained glass window. You may want to go over certain parts of the design with a dark pen, crayon, or marker to emphasize different portions of your design.

(0,7)	(0,-7)	(6,0)	(-6,0)
(2,10)	(-2,-10)	(7,2)	(-7,2)
(0,13)	(0,-13)	(8,0)	(-8,0)
(-2,10)	(2,-10)	(7,-2)	(-7,-2)
STOP	STOP	STOP	STOP

