

STAINED GLASS BLUEPRINTS

NAME: _____

DATE: _____ PERIOD: _____

- 1) Graph each line on your paper using pencil. Make sure that your lines are straight by using a ruler. Extend the lines to the edge of your paper. You may trim the edges later to make it neat.
- 2) When you have finished graphing all the lines, color your design to create a stained glass window.
- 3) You may wish to go over certain parts of the design with a dark pen, crayon, or marker to emphasize different portions.

1) $y = -\frac{3}{2}x + 12$

7) $y = \frac{4}{5}x - 4$

2) $y = \frac{3}{2}x + 12$

8) $y = -\frac{4}{5}x - 4$

3) $y = -\frac{3}{2}x - 12$

9) $y = 12$

4) $y = \frac{3}{2}x - 12$

10) $y = -12$

5) $y = \frac{4}{5}x + 4$

11) $x = -10$

6) $y = -\frac{4}{5}x + 4$

12) $x = 10$

After you have graphed all the lines, plot these points. Connect them in the order that they are plotted. For example, graph (-2,0). Then graph (0,4) and connect it back to (-2,0). When you reach a STOP, you have completed a shape. Pick up the pencil and start the next column without connecting it to the previous one.

(-2, 0)	(0, 10)	(-1, 0)	(0, -4)	(0, 4)
(0, 4)	(5, 0)	(0, 3)	(1, -6)	(1, 6)
(2, 0)	(0, -10)	(1, 0)	(0, -10)	(0, 10)
(0, -4)	(-5, 0)	(0, -3)	(-1, -6)	(-1, 6)
(-2, 0)	(0, 10)	(-1, 0)	(0, -4)	(0, 4)
STOP	STOP	STOP	STOP	STOP