

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

