Mathematical Mosaic

1. Graph the equations listed in section A using a pencil. Make sure to extend your lines all the way to the edge of your graph paper (using a ruler) and that your lines are straight and neat.

```
y = x
y= -x
y = 5x + 2
y = -5x + 2
y = 5/8x-2
y = -5/8x-2
y = 1/5x + 1
y = -1/5x + 1
y = 2/3x + 3
y = 2/3x-3
y = -2/3x + 5
y = -2/3x-5
y = |x| + 3
y = -|x|-3
y= 13
y = -13
x = 13
x = -13
```

"Section A"

2. Plot the ordered pairs from section B in their individual groups, then connect them in order from top (ordered pairs) to bottom. For example: Graph (0,2), (5,6), and (10,10), then connect (0,2) to (5,6), then connect (5,6) to (10,10). Then you would plot and connect group 2 separately in the way we just completed group number 1.

	Group 4	Group 3	Group 2	Group 1
"Section B'	(0,-2)	(0,-2)	(0,2)	(0,2)
	(-5,-6)	(-5,2)	(5,-1)	(5,6)
	(-10,-10)	(-10,6)	(10,-4)	(10,10)

- 3. Cut your paper on the lines y = 13, y = -13, x = 13, and x = -13.
- 4. Color your mosaic using colored pencils however you want. Just try to make it look as colorful and beautiful as possible.
- 5. Glue your creation onto a piece of construction paper.
- 6. You are done! You may now stand back and marvel at you magnificent mathematical mosaic.