# <text>

# Aspect 1: <u>The Design</u>

You will create a design using linear equations. This design will be accurate and neat.

## You will need to include:

- Minimum of 25 different lines
- Lines with various slopes (fractional, whole numbers, positive, negative, etc)
- Parallel lines (at least one pair)
- Perpendicular lines (at least one pair)
- Vertical line(s) that go through the point (b,y) (i.e. x = b)
- Horizontal line(s) that go through the point (x,a) (i.e. y = a)
- Restricted domain and range to limit the lines

## Be CREATIVE, but don't do more than you can handle...

## Aspect 2: <u>The Poster</u>

I want you to create an AWESOME poster that displays your picture, along with the directions.

This should be very, very neat and easy to see from a distance.

### Aspect 3: The Directions

You will write equations for each line shown in the picture. You will also state the domain and range restrictions for each line.

### **Direction requirements:**

- Slope-intercept form y = mx + b
- Point-slope form  $y-y_1=m(x-x_1)$
- State the restricted domain
- State the restricted range

