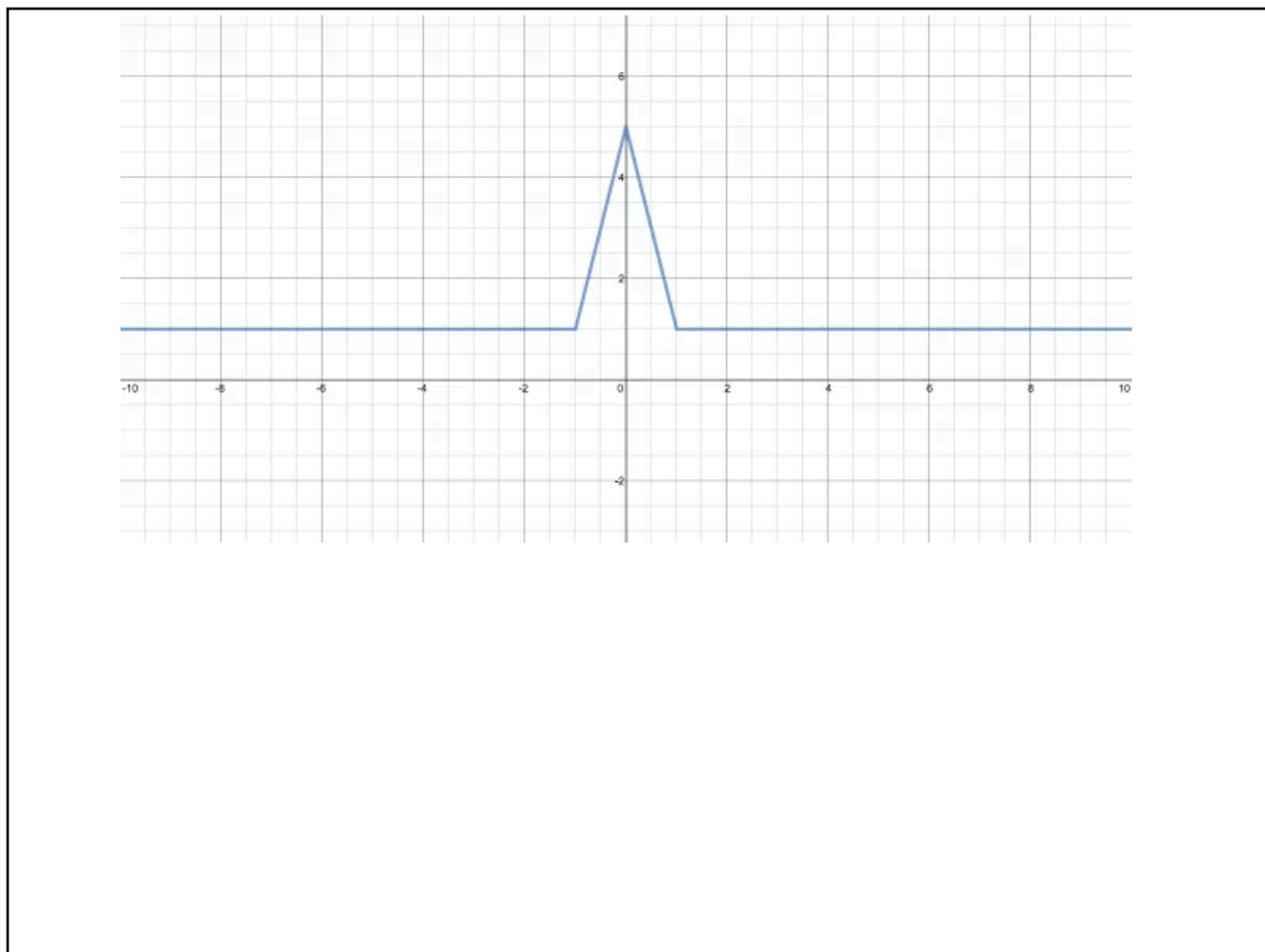
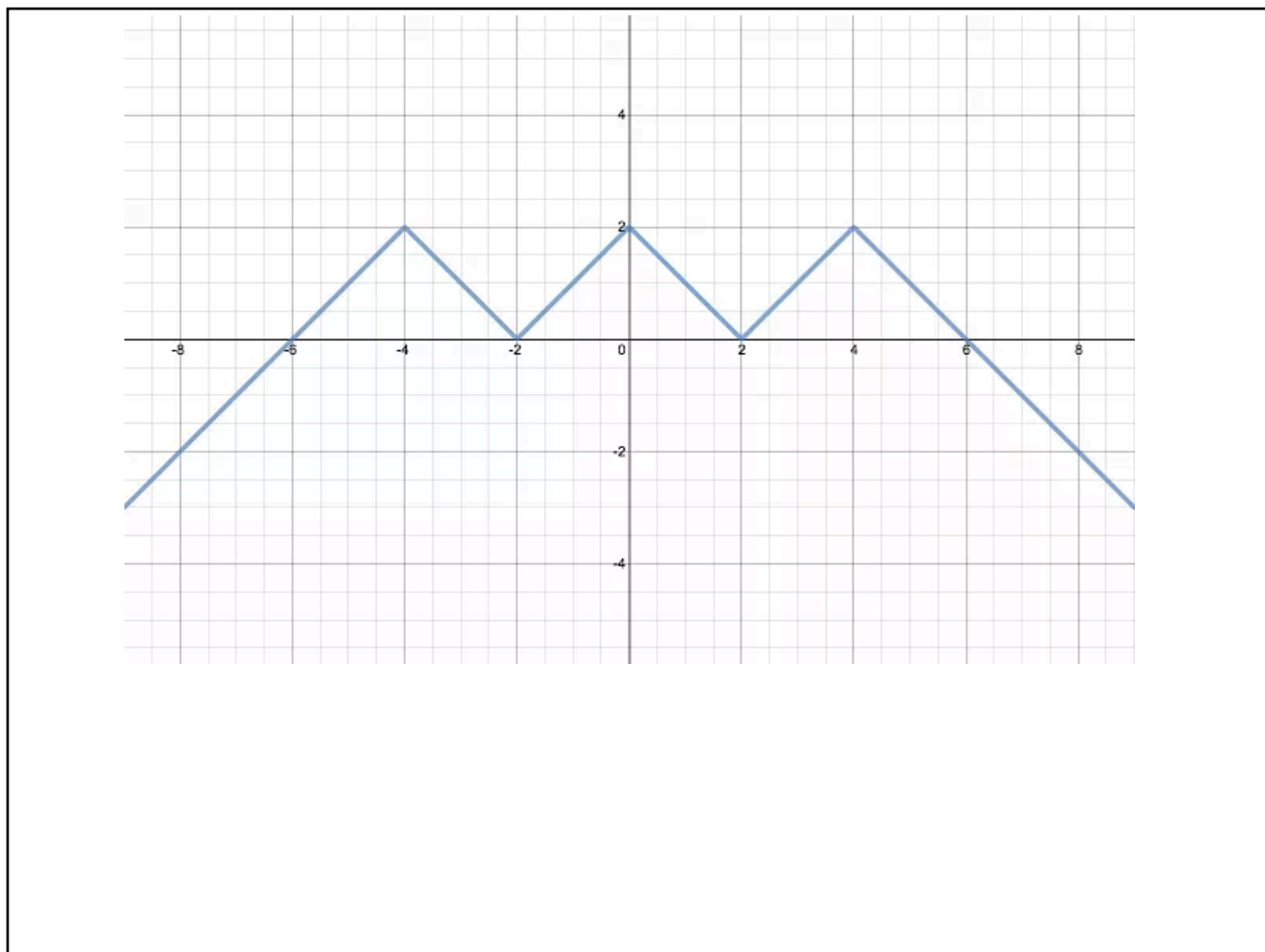


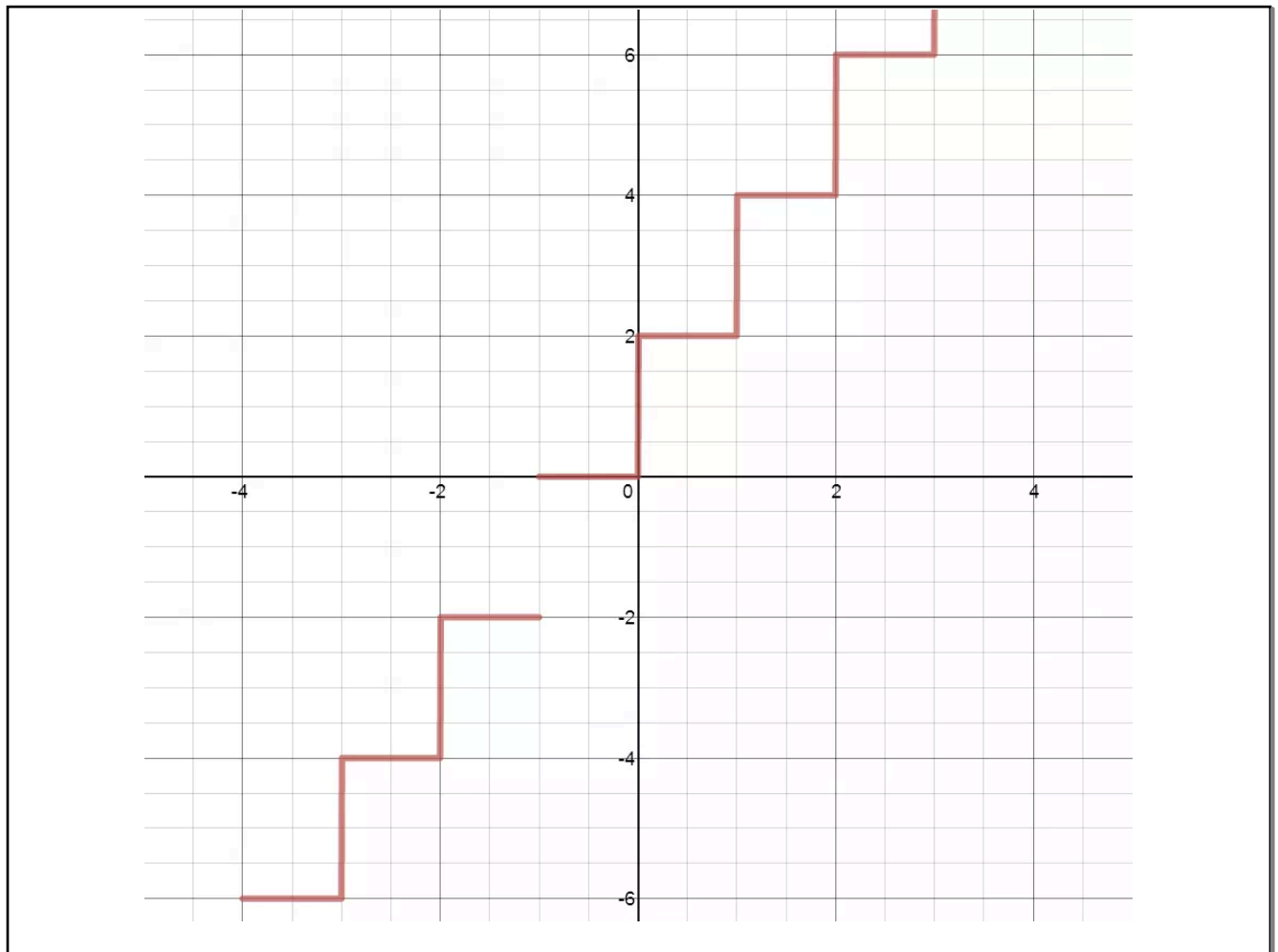
<b>BIG PICTURE of this UNIT:</b>	<ul style="list-style-type: none"> <li>• mastery with algebraic skills to be used in our work with linear functions and equations.</li> <li>• understanding various properties of basic functions and linear equations</li> <li>• manipulate equations with more than one variable</li> </ul>		
<b>CONTEXT of this LESSON:</b>	<p>Where we've been</p> <p>We have been working with point-slope and slope-intercept form of lines.</p>	<p>Where we are</p> <p>The beginning of the DIAL project, a culminating project using all our previous skill development.</p>	<p>Where we are heading</p> <p>Using our knowledge of linear equations to work with system of equations.</p>

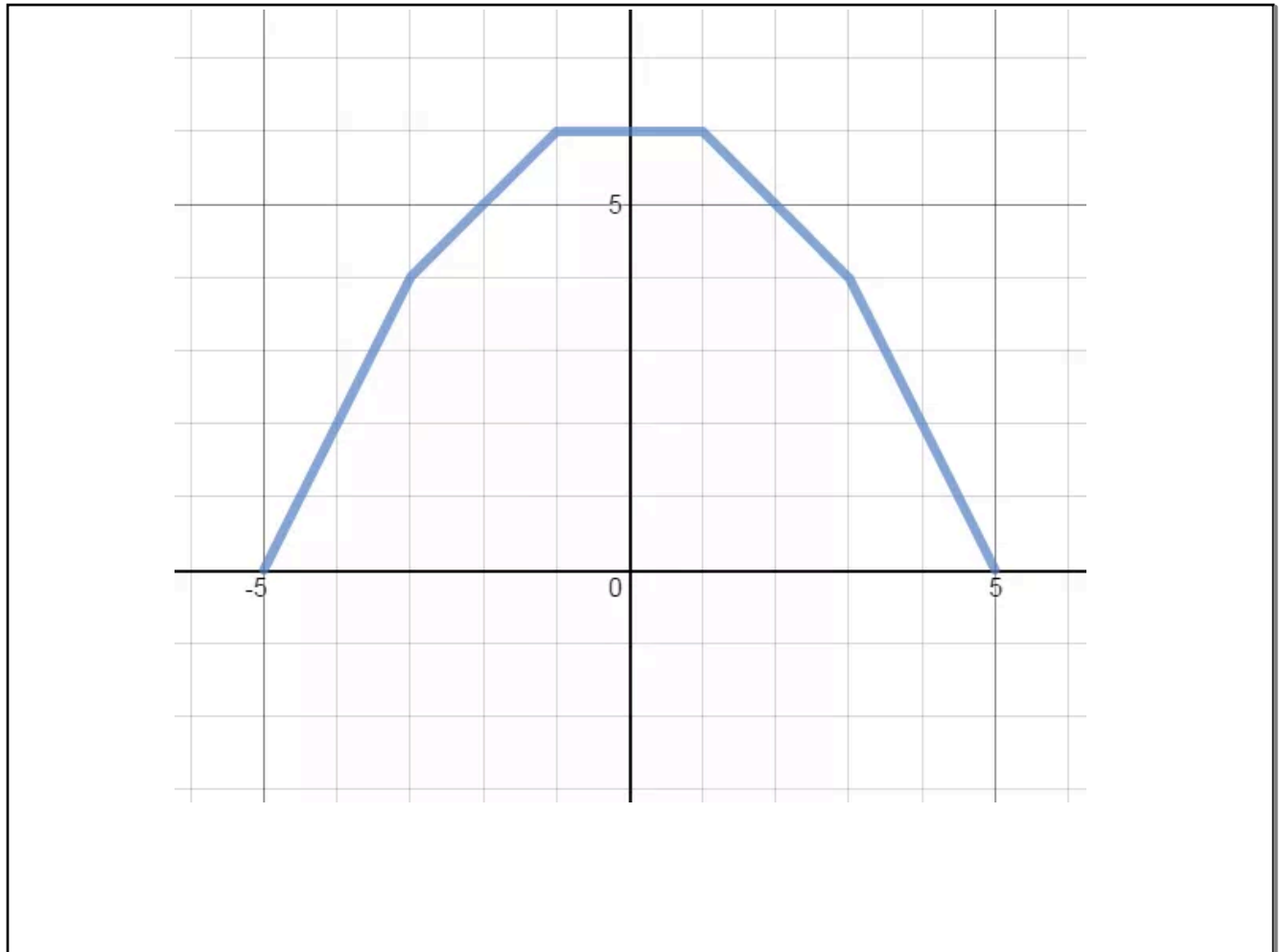
# Daily Desmos

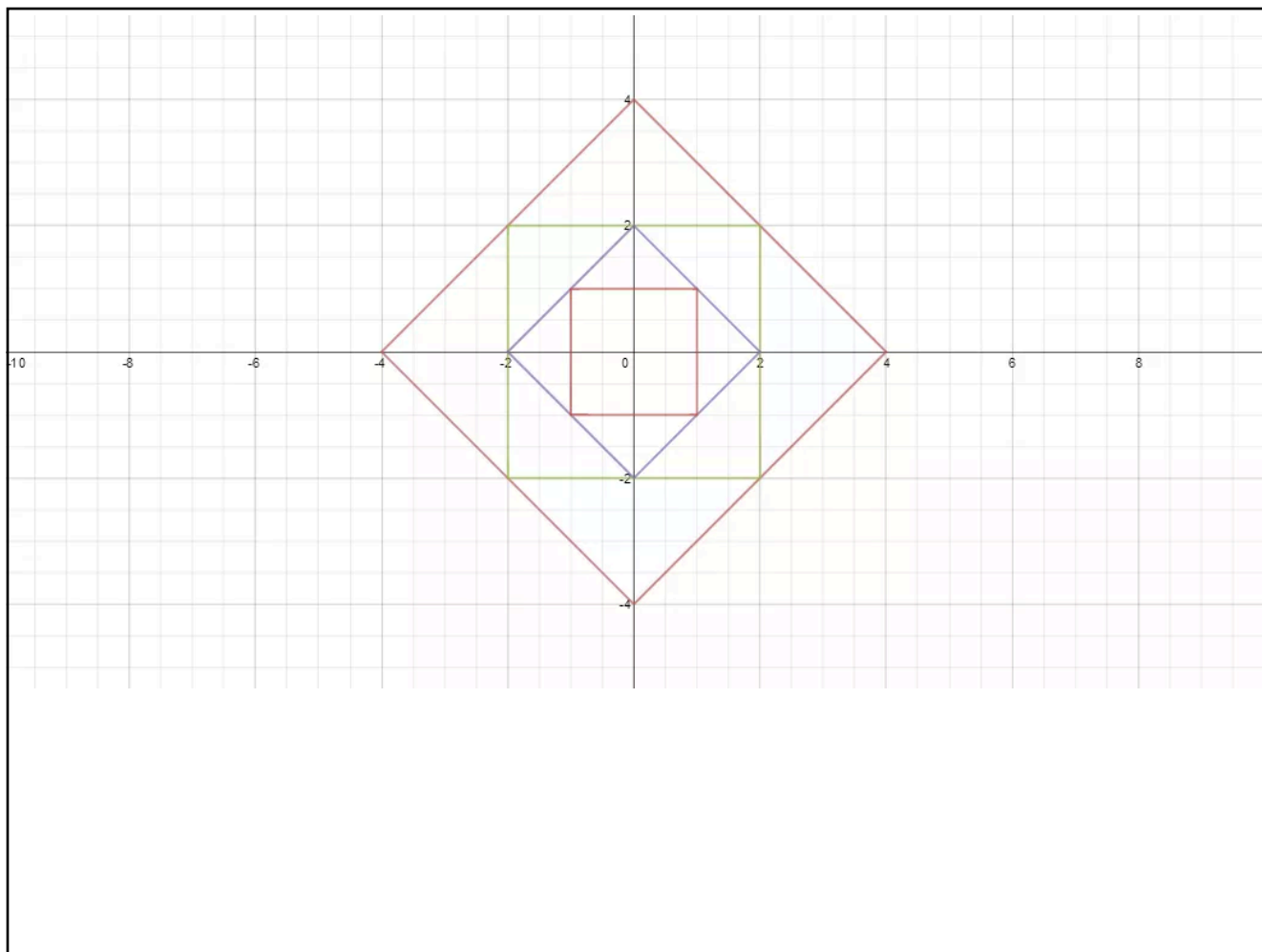
Can you re-create the images?











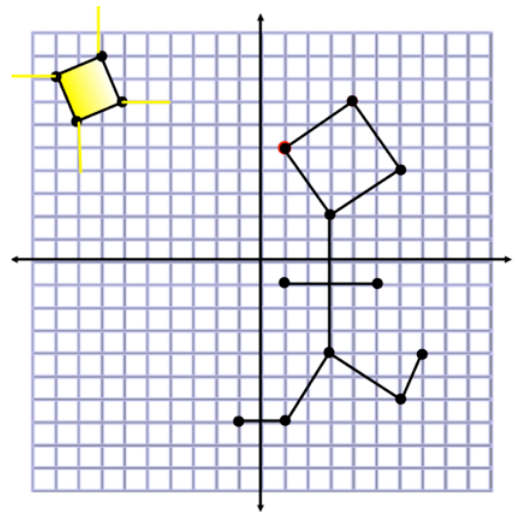




## Directions in Another Language Project

In this project you will be creating a picture using mathematical directions and linear equations. Your picture must contain **at least 25 different lines**. The picture at right is an example of what I expect...

There are three parts to this project.



**Aspect 1: The Design**

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: The Poster**

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.

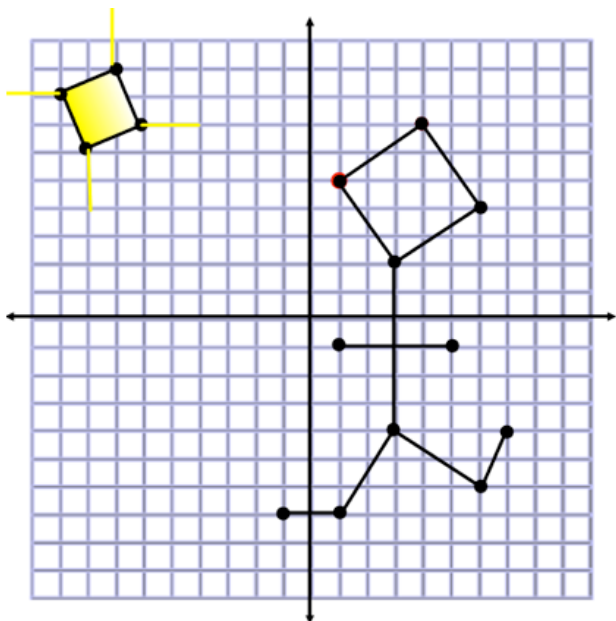
**Aspect 3: The Directions**

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

Let's create an example of the directions using our picture.



Line 1: