Exploration Guide: Defining a Line with Two Points

1. Use the sliders to manipulate the x and y coordinates of the two points.

2. How would you calculate the slope of a line defined by two points?

3. Click on the "compute slope" box.
   - Does this computation make sense based on your understanding of slope?

4. Click on the "show point slope form" option.
   - Why are there two equations for one line shown?
   - Can you make sense of the equations based on the coordinates of the two points?

5. Try to predict the slope-intercept form of your line. Check yourself with the "show slope intercept form" option.