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### The Slope-Intercept Form of a Line Activity

#### Introduction

In this module, you will explore the slope-intercept form of a linear equation. You will see how changes in the slope and y-intercept of a line affect its graph. You will also learn how to graph equations in slope-intercept form on your own.

The Slope-Intercept Form of a Line ( $y = mx + b$ )

#### The Slope or Steepness

The general slope-intercept form of a line is given by the equation  $y = mx + b$ . In this equation,  $m$  represents the slope or steepness of the line.

1. Vary the slope of the line in the Gizmo using the  $m$  slider.

a. What do lines with a positive slope look like? (Do they go upward or downward from left to right?)

Positive slopes go upward from left to right.

b. What do lines with a negative slope look like?

Negative slopes go downward from right to left.