Vocabulary

Gizmos

- <u>Coordinates</u> a set of numbers that names the location of a point.
 - In the two-dimensional coordinate plane, it takes two numbers (x, y) to specify a location.
 - The (x, y) coordinates of a point are called an *ordered pair*.
- <u>Rise</u> the change in the *y*-coordinates between two points on a line.
- <u>Run</u> the change in the *x*-coordinates between two points on a line.
- <u>Slope</u> a measure of the steepness of a line.
 - For two points on a line, (x_1, y_1) and (x_2, y_2) , slope is defined as:

slope = $\frac{\text{rise}}{\text{run}} = \frac{\text{changein } y}{\text{changein } x} = \frac{y_2 - y_1}{x_2 - x_1}$.

• For example, the slope of the line through the points (2, 1) and (5, 7) as shown to the right is:

$$\frac{7-1}{5-2} = \frac{6}{3} = 2$$



