## Vocabulary: Slope

## Vocabulary

- Coordinates - 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.
- Rise - the change in the $y$-coordinates between two points on a line.
- Run - the change in the $x$-coordinates between two points on a line.
- Slope - a measure of the steepness of a line.
- For two points on a line, $\left(x_{1}, y_{1}\right)$ and $\left(x_{2}, y_{2}\right)$, slope is defined as:

$$
\text { slope }=\frac{\text { rise }}{\text { run }}=\frac{\text { changein } y}{\text { changein } x}=\frac{y_{2}-y_{1}}{x_{2}-x_{1}} .
$$

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

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



