

## Slope-Intercept Form

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**Essential Question:**

What are the two important parts of a line in slope-intercept form?

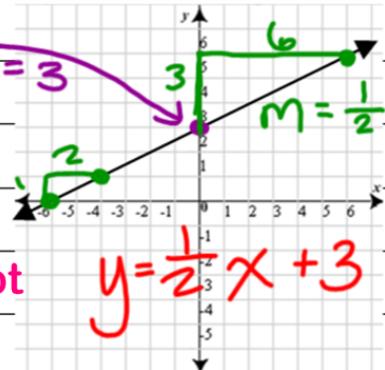
Questions/Main Ideas:

Identify the slope-int. equation and explain how to graph it.

$$y = mx + b$$

$m$ : slope

$b$ : y-intercept



Notes:

$m$ : slope

Explain how  $m$  determines the slope type.

- If  $m$  is positive, the line goes up from left to right
- If  $m$  is negative, the line goes down from left to right

$b$ : y-intercept

Identify the y-int. rules & how to use them.

- If  $b$  is positive, the line crosses the y-axis above the origin
- If  $b$  is negative, the line crosses the y-axis below the origin

\* TIP: When graphing a line, begin with  $b$  \*

What does HOY-VUX Stand for?

Horizontal and Vertical Lines (HOY-VUX)

- Horizontal lines have a slope of 0, the only variable is  $y$
- Vertical lines have a slope of undefined, the only variable is  $x$