

SLOPE

KEY CONCEPTS GUIDE

SLOPE KEY CONCEPTS

WHAT IS SLOPE?

Slope is a number that describes the direction and the steepness of a line. We can have a positive slope, negative slope, no slope, and undefined slope.



FINDING THE SLOPE OF A LINE

The slope of a line can also be described as the change in y versus the change in x or "rise over run." When given a graph, you can determine the slope by counting the units that you go up and run between two points, or calculating the change between two ordered pairs (two points) on the line.

Example:



Example:



$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\text{slope} = \frac{3 - 1}{2 - 0} = \frac{2}{2} = 1$$

$$\text{slope} = \frac{1 - 3}{2 - 0} = \frac{-2}{2} = -1$$

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SLOPE-INTERCEPT FORM

The slope-intercept form of a linear equation is $y = mx + b$.

Where m is the slope of the line and b is the y -intercept of the line.



$y = mx + b$

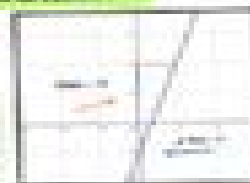
Given the slope-intercept form, you can find the slope and y -intercept of a line. For example, if the equation of a line is $y = 2x + 3$, the slope is 2 and the y -intercept is 3. You can also graph a line given its slope and y -intercept.

GRAPHING WITH SLOPE-INTERCEPT FORM

Example 1: When given an equation, you can find the slope and y -intercept. Graph the line $y = 2x + 3$ on the coordinate plane. (The y -intercept is 3 and the slope is 2.)

Example 2: Graph the line $y = -x + 1$ on the coordinate plane.

Example 3: Graph the line $y = 2x + 3$ on the coordinate plane. (The y -intercept is 3 and the slope is 2.)



Example 4: Graph the line $y = -x + 1$ on the coordinate plane. (The y -intercept is 1 and the slope is -1.)



Example 5: Graph the line $y = 2x + 3$ on the coordinate plane. (The y -intercept is 3 and the slope is 2.)

Example 6: Graph the line $y = -x + 1$ on the coordinate plane. (The y -intercept is 1 and the slope is -1.)

Example 7: Graph the line $y = 2x + 3$ on the coordinate plane. (The y -intercept is 3 and the slope is 2.)

Example 8: Graph the line $y = -x + 1$ on the coordinate plane. (The y -intercept is 1 and the slope is -1.)

Example 9: Graph the line $y = 2x + 3$ on the coordinate plane. (The y -intercept is 3 and the slope is 2.)

Example 10: Graph the line $y = -x + 1$ on the coordinate plane. (The y -intercept is 1 and the slope is -1.)

Example 11: Graph the line $y = 2x + 3$ on the coordinate plane. (The y -intercept is 3 and the slope is 2.)

KEY VOCABULARY, STEP-BY-STEP EXAMPLES, + VISUALS
ALL TOGETHER IN ONE COHESIVE GUIDE!

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