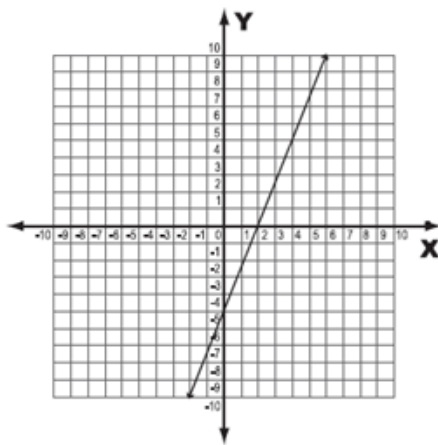


Slope, also known as the rate of change, describes the steepness of a line, which can be positive, negative, zero, or undefined. It can be written as a ratio that compares the change in the dependent variable to change in the independent variable, $\frac{\Delta y}{\Delta x}$.

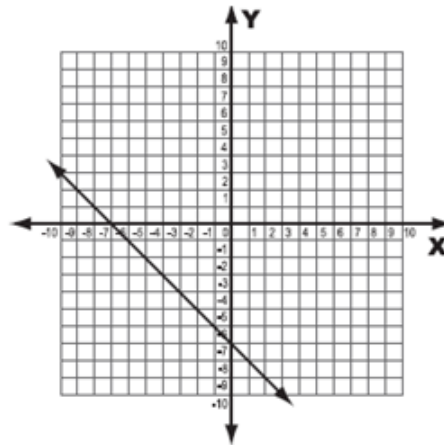
Slope is represented algebraically by the variable, m , in the formula $y = mx + b$. It can also be determined using the formula, $m = \frac{y_2 - y_1}{x_2 - x_1}$, when two points on a line are known.

Slope can also be determined by using the sides of right triangles (slope triangles) on a graph.

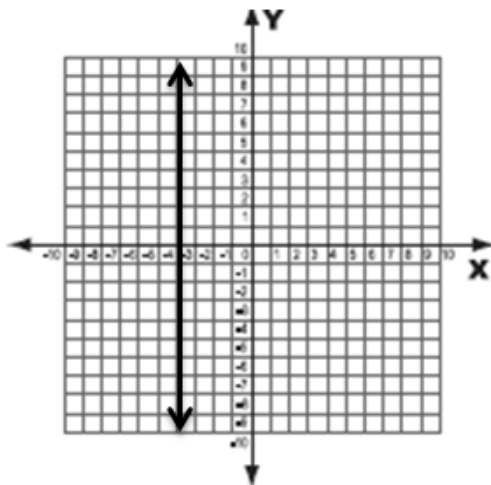
Positive Slope



Negative Slope



Undefined Slope



Zero Slope

