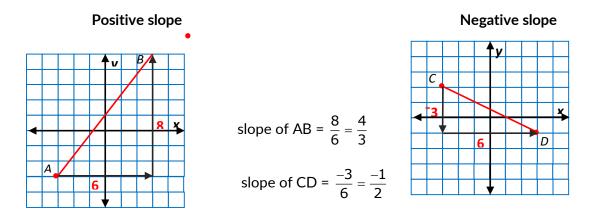
Coordinate Plane

Properties of the coordinate plane can be used to find information about figures in the plane, such as whether lines in the plane are parallel.

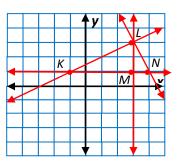
Slope is a number that describes how steep a line is.

slope =
$$\frac{\text{vertical change}}{\text{horizontal change}} = \frac{\text{rise}}{\text{run}}$$



The slope of a horizontal line is 0. The slope of a vertical line is undefined.

Example 1: Determine if the slope of each line is positive, negative, 0, or undefined. Then find the slope of each line.



a) KL

Positive slope; slope of KL= $\frac{2}{4} = \frac{1}{2}$

b) LM Slope of LM is undefined.

c) LN

Negative slope; slope LN= $\frac{-2}{1}$ = -2

d) KM Slope of KM= 0