1.3 Pre-Calculus

Slope

Change in the y-coordinates divided by the change in the x-coordinates

Quick way to find the slope between two points:

The slope is .

The slope is .

The slope is which is undefined.

The slope is

When the is on the top of the fraction, the slope is 0.

When the is on the bottom of the fraction, the slope is undefined.

Slope Intercept Form

m is the slope, b is the y-intercept

Put these in slope intercept form.

Point Slope Form

The point is and m is the slope.

Put these in Point Slope form.

Special Cases

HOY Horizontal lines have O slope and have an equation of a number

VUX Vertical lines have Undefined slope and have an equation of

Parallel lines have the same slope.

Perpendicular lines have negative slopes.