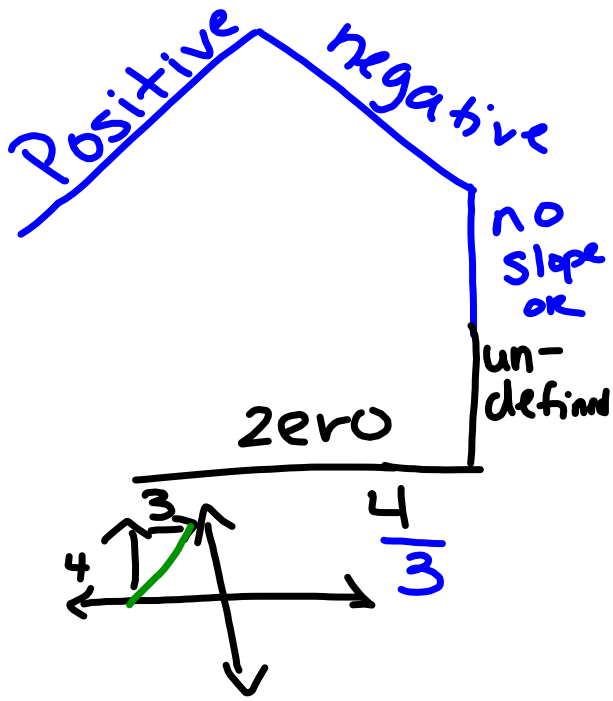
GRAPH

Slope = $\frac{\text{rise}}{\text{run}}$

Pick 2 lattice points & count how far apart they are from each other



Two Points

1. Label your ordered pairs
   - 1st pt (x_1, y_1)
   - 2nd pt (x_2, y_2)
2. Substitute into the formula
3. Evaluate or Solve

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\text{Rise}}{\text{Run}}$$

Equation

The slope is the coefficent in the equation

☆ Coefficent is the number in front of the variable

$y = mx + b$

↘ slope

Lattice point : a point at the intersection of 2 grid lines on the graph

"perfect point"
"sweet spot"
"juicy pts"

Positive Slope $m = \frac{+}{+}$

OR $m = \frac{=}{=}$

Negative Slope $m = \frac{-}{+}$

or $m = \frac{+}{-}$

(7) $(2,1)$ $(5,3)$ $\quad \frac{y_2-y_1}{x_2-x_1}$

$\frac{3-1}{5-2} = \frac{2}{3}$ $\qquad \frac{1-3}{2-5} = \frac{-2}{-3} = \frac{2}{3}$

(12) $(-5,8)$ $(-4,2)$

$\frac{2-8}{-5+4} = \frac{-6}{-1} =$

$\frac{2-8}{-4+5} = \frac{-6}{1} = -6$