

Slope on a Graph

$$\frac{\Delta Y}{\Delta X} = \frac{\text{Change in } y}{\text{Change in } x}$$

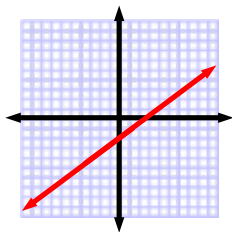
Rise
Run

The y-values move vertically
The x-values move horizontally

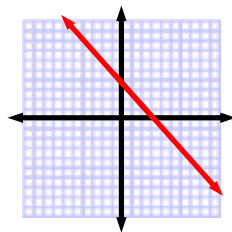
Slope can tell you how to move on a graph

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} \quad \text{*We always run to the right!}$$

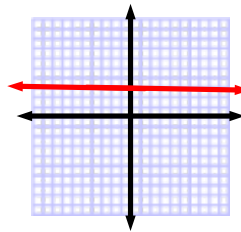
There are 4 kinds of slope:



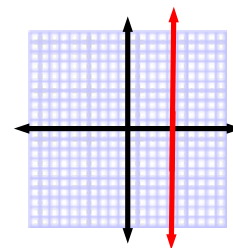
Positive



Negative



Zero



Undefined or
No Slope

Find the slope of the following graphs

Rise
Run

1.

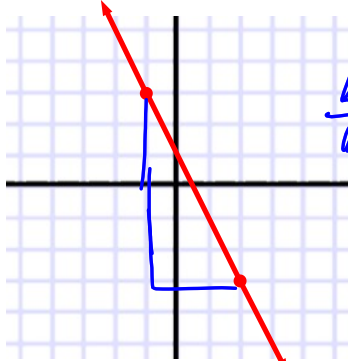


$$\frac{\Delta y}{\Delta x} = \frac{1}{3}$$



$$\frac{3}{4}$$

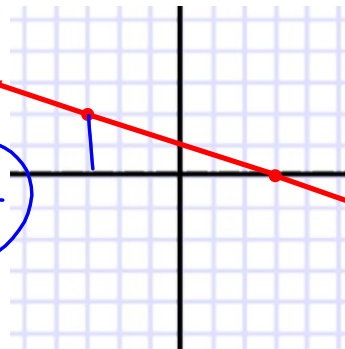
3.



$$\frac{\Delta y}{\Delta x} = \frac{-4}{2} = \frac{-2}{1}$$

FALL
CRAWL

4.



$$\frac{\Delta y}{\Delta x} = \frac{-1}{3}$$