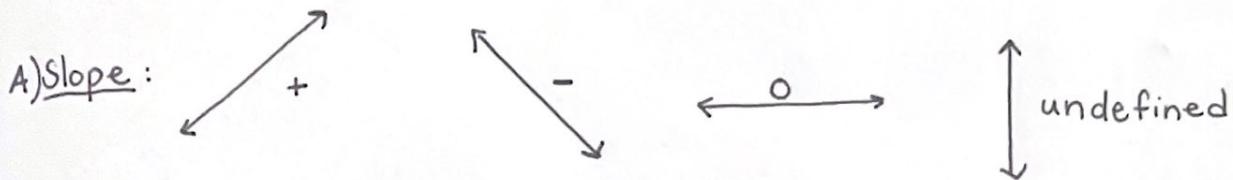


6. slope and Y-intercept

$$y = mx + b$$

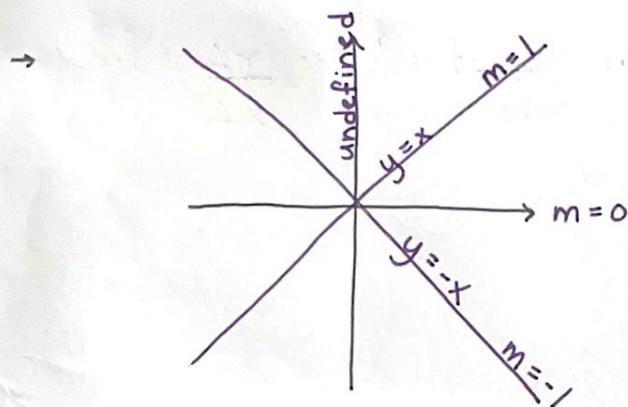
\downarrow
slope

\nearrow y-intercept



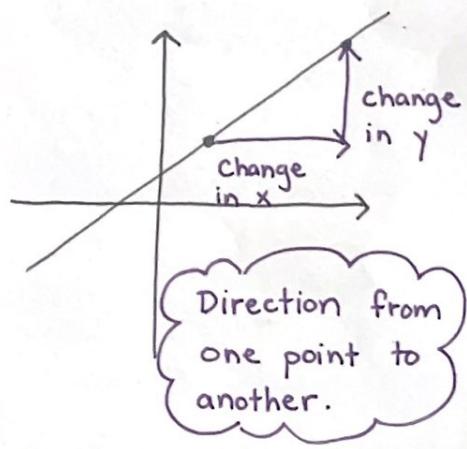
→ Why m? monter (to climb)

→ Also called Rate of Change



→ The slope of a line describes how steep a line is.

→
$$\boxed{\text{slope} = \frac{\text{change in } y}{\text{change in } x} = \frac{\Delta y}{\Delta x}}$$

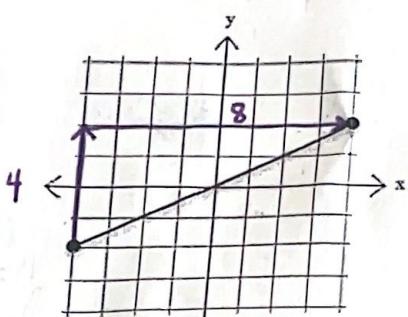


→ Tip to remember: "Rise over run"

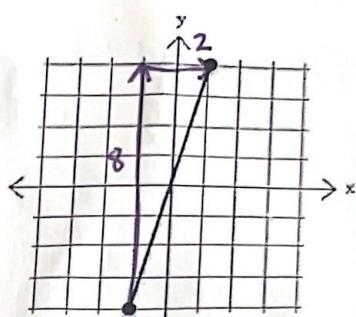
$\frac{\text{Rise } \uparrow}{\text{Run } \rightarrow}$

Examples :

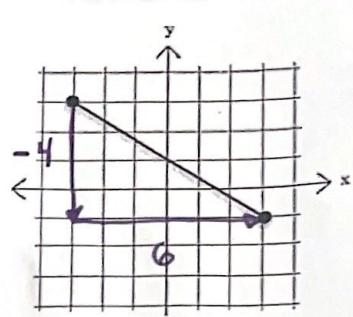
a)



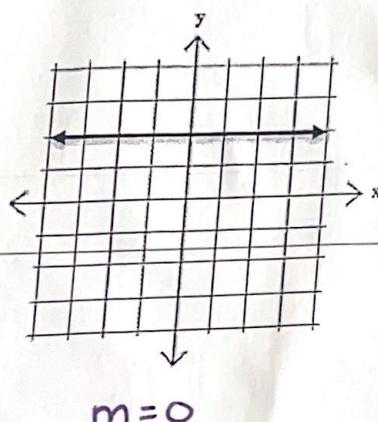
b)



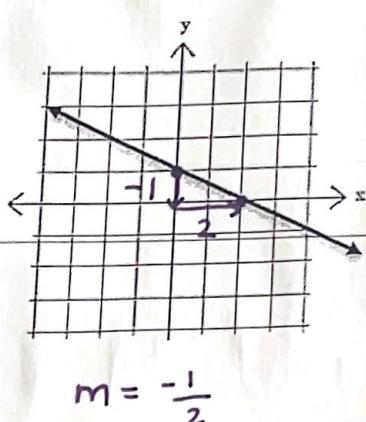
c)



d)



e)



f)

