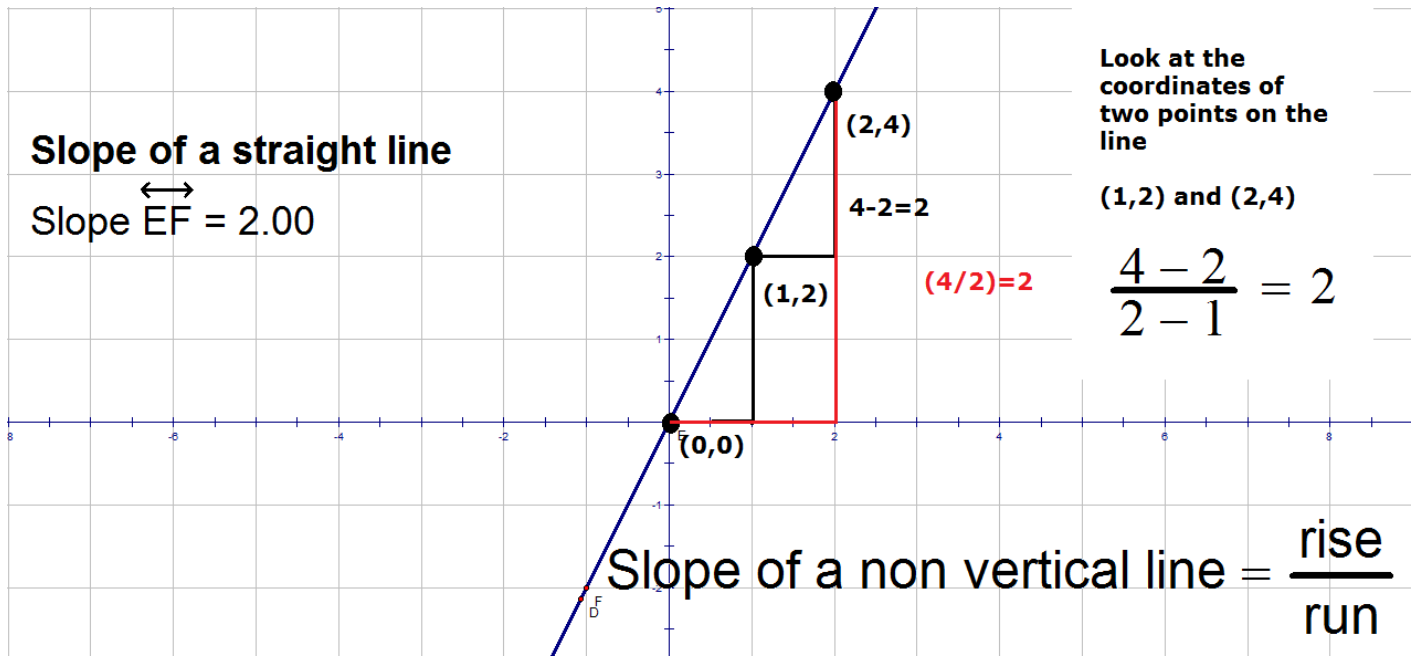


The following are the notes connected with the video *Slope of a line* that I have posted for you on youtube



Formula: If (x_1, y_1) and (x_2, y_2) are the coordinates of two points

on a non vertical line, then the slope of this line is $\frac{y_2 - y_1}{x_2 - x_1}$ where $x_1 \neq x_2$

Example:

Given that $(-2, 5)$ and $(1, -1)$ are the coordinates of two points on a line.

To find the slope of the line

$$(x_1, y_1) = (-2, 5)$$

$$(x_2, y_2) = (1, -1)$$

$$\text{Slope } \frac{y_2 - y_1}{x_2 - x_1} = \frac{-1 - 5}{1 - (-2)} = \frac{-6}{1 + 2} = \frac{-6}{3} = -2$$

$$\frac{5 - (-1)}{-2 - 1} = -2$$

$$\frac{5 - (-1)}{1 - (-2)} = 2 \text{ WRONG}$$