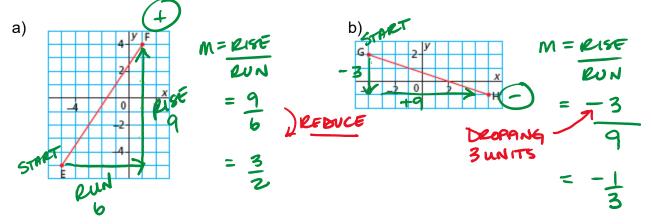
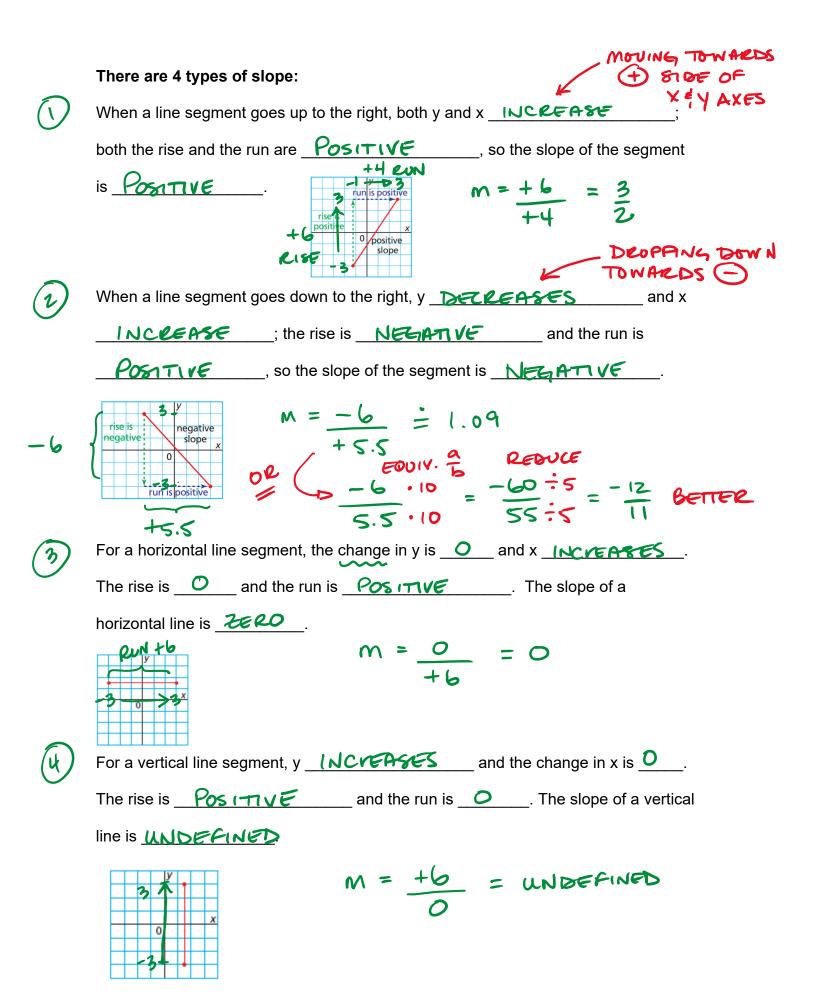
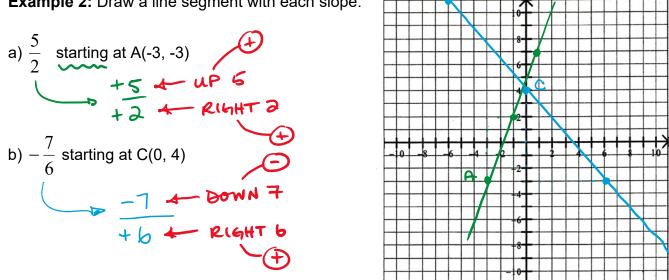
Notes	Lesson 1: Slope of a Line
	The steepness of a roof is measured by calculating its <u>SCOFE</u> .
	LAST CHAPTER IT WAS CALLED "RATE OF CHANGE" B/C THE UNITS FOR RISE & RUN WERE DIFFERENT.
-	THE UNITS FOR RISE & RUN WERE DIFFERENT.
	Rise: VERTICAL DISTANCE
	( A IN Y)
	RUN: HORIZONTAL DISTANCE ( & IN X)
	The change in y is the
	The change in x is the
	slope (m) = $\frac{R_{\text{csc}}}{R_{\text{const}}}$
	The symbol for slope is

## Example 1: Determine the slope of each line segment.

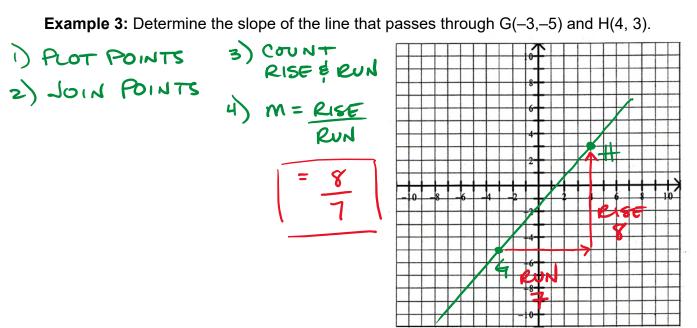




**Example 2:** Draw a line segment with each slope.



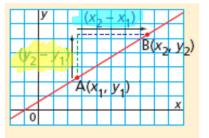
**Example 3:** Determine the slope of the line that passes through G(-3,-5) and H(4, 3).

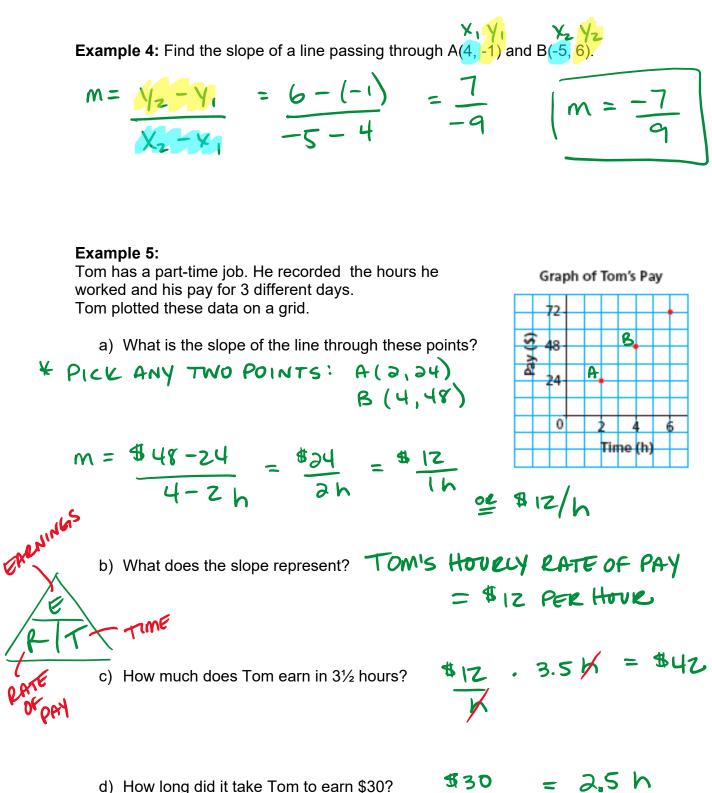


## Slope of a Line

A line passes through A( $x_1$ ,  $y_1$ ) and B( $x_2$ ,  $y_2$ ), you can use this formula to determine the LITTLE NUMBERS ARE SUBSCRIPTS slope of a line.

slope (m) = 
$$\frac{1}{\sqrt{2}}$$
  $\frac{1}{\sqrt{2}}$   $\frac{1}{\sqrt{2}}$   $\frac{1}{\sqrt{2}}$   $\frac{1}{\sqrt{2}}$ 





- $\frac{530}{12/h} = 2.5h$

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