Warmup 9/(\# of letters in "Right now it is the twenty-sixth")

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1. Which line is steeper? Verify your answer with numbers.
***Need
whiteboard, marker, eraser in your desk!***


- SLOPE is how steep a line is.
- Specifically, it is how much the $y$-value increases for each $\mathbf{x}$.
- Bigger slope number = steeper line!
- A straight line will NEVER CHANGE SLOPE!!!



# How to find Slope from a Graph: 

Pick two points, then find the:

- $\frac{\text { change in } y}{\text { change in } x}$
- (Also known as $\left.\frac{\text { rise }}{\text { run }}\right)$


## Find the slope...

## change in $y$

change in $x$



Find the slope of each line...


- Direction matters!!!
$\circ$ Read the graph left to right.
$\circ$ Up \& to the right (increasing) = positive slope
$\circ$ Down \& to the right (decreasing) = negative slope


## Find the slope:



The graph shows the average electricity costs (in dollars) for operating a refrigerator for several months. Find the slope of the line. Then tell what the slope represents.

Refrigerator Electricity Costs


## Find and interpret the slope.

## Estimated Maximum Heart Rate



## Find the slope of each line...




## Positive



Zero


Undefined

## Negative





## Which one of these lines could it be?



## Slope $=-\frac{1}{4}$



## Match:

1) Slope $=1 / 2$
2) Slope $=1$
3) Slope $=3$
4) Slope $=-1 / 2$
5) Slope $=-1 / 4$
6) Slope $=-3$


## On a NORMAL graph: (scaled by 1's)

- Slope < 1: Not that steep

- Slope = 1: "Halfway steep"

- Slope >1: Pretty steep


## Homework: Slope Half-Sheet

