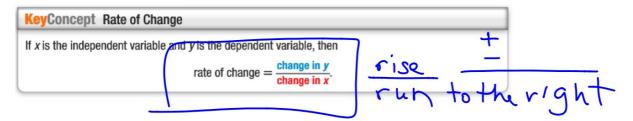
Algebra 1 3.3 \*8th grade standard
Use rate of change to solve problems
Find the slope of a line\*

Is it ever OK to divide by zero? No algebra

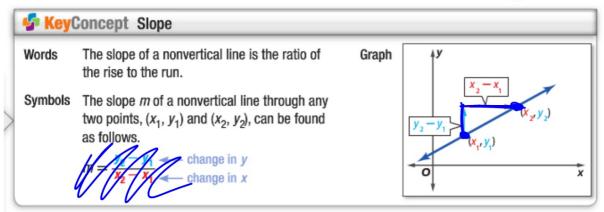
rate of change
slope how steep cation—Vertical
negative slope
zero slope
undefined slope
constant
linear

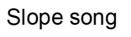
slope song

**Rate of Change** Rate of change is a ratio that describes, on average, how much one quantity changes with respect to a change in another quantity.



## Run to the right!





## Slope Song

(Turkey in the Straw)

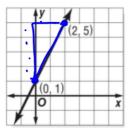
Slope is rise over run as we all know. With the Y's on the top and the X's below. Subtract the terms to get it right. Simplify last for a wonderful sight.

(Chorus)

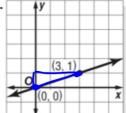
Rise over run, Y's over X.
Rise over run, Y's over X.
Subtract the terms to get it right.
Simplify last for a wonderful sight!

Find the slope of the line that passes through each pair of points.

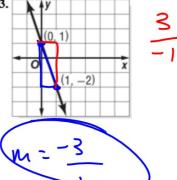
1.



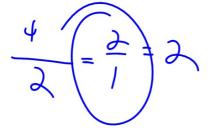
2.



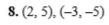
3

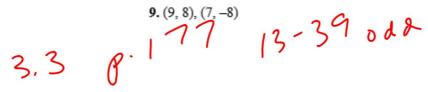


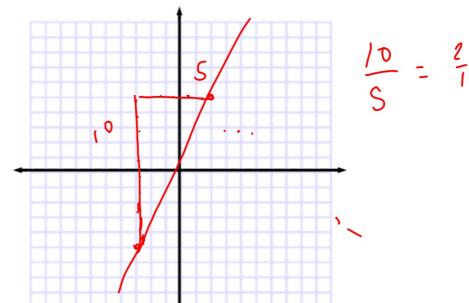
1



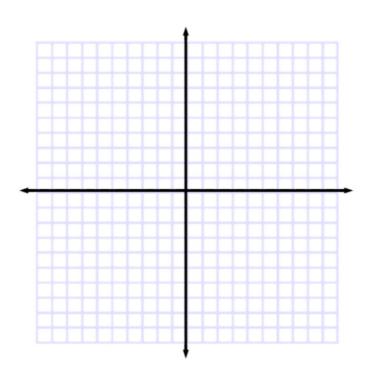
M= -3

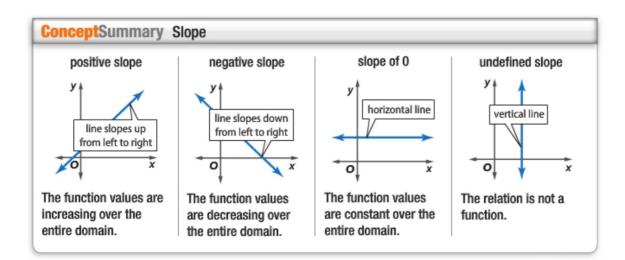






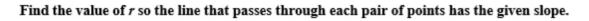
## 11. (-3, 10), (-3, 7)





zero slope slope

undefined



skip these (for now)

**25.** 
$$(7, r)$$
,  $(4, 6)$ ,  $m = 0$