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?

rate of change
slope = m
positive slope

Note

Vert
rise

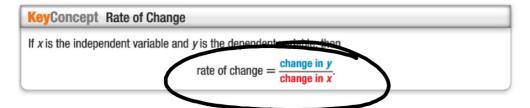
rise

run

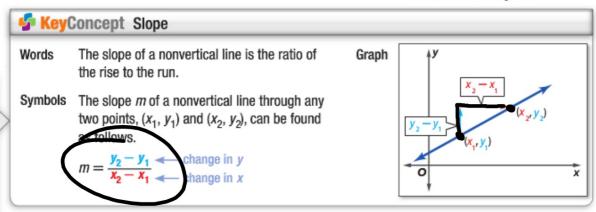
Quiz 3.1-3.2 negative slope zero slope hariz. constant does not change (number linear graph is a line

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!



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Slope song

Slope Song

(Turkey in the Straw)

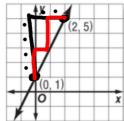
Slope is rise over run as we all know. With the Y's on the top and the X's below. Subtract the terms to get it right. Simplify last for a wonderful sight.

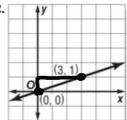
M= rise_ y-y
T-x

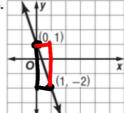
(Chorus)
Rise over run, Y's over X.
Rise over run, Y's over X.
Subtract the terms to get it right.
Simplify last for a wonderful sight!

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

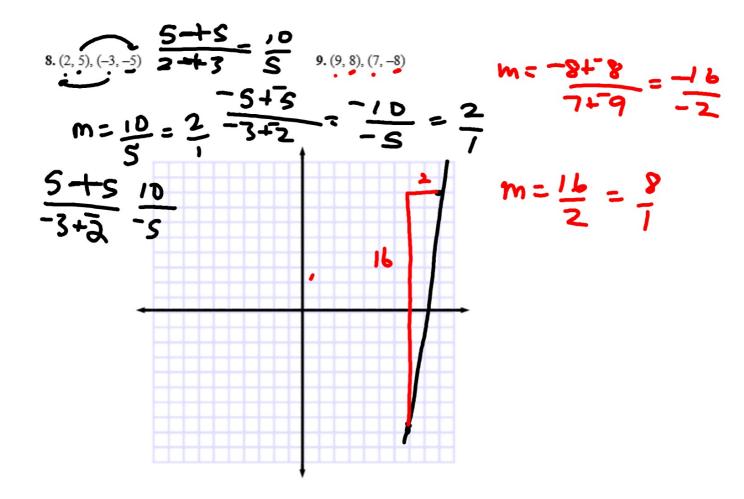


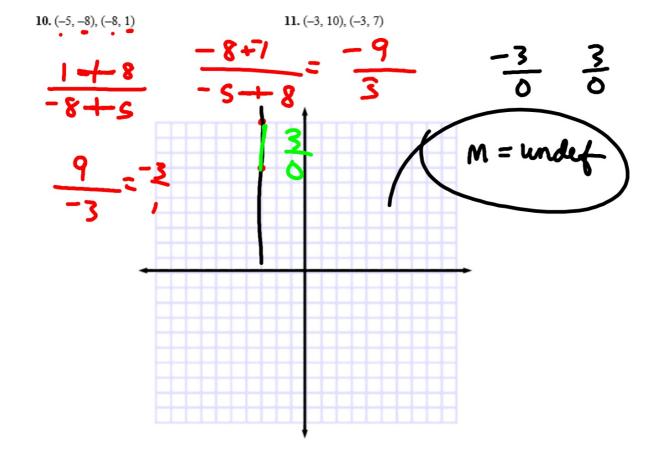


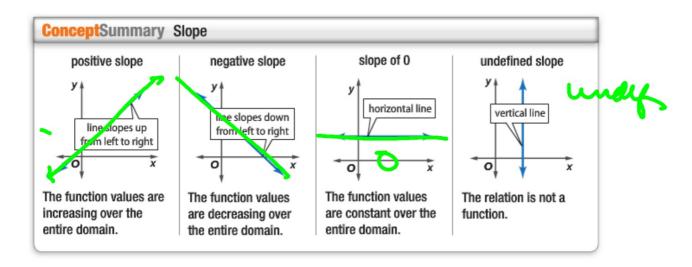




$$m=\frac{1}{3}$$







zero slope

undefined

slope

E.T. Find slope a) (2,5) (3,-2)

6) (12,1) (6,3)

c) (5,2) (5,-6)

WB prac. 3,3 0 40 odds

Find the value of r so the line that passes through each pair of points has the given slope.

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