

Algebra 1 3.3

Use rate of change to solve problems

\*8th grade standard

Find the slope of a line\*

rate of change

slope

positive slope

negative slope

zero slope

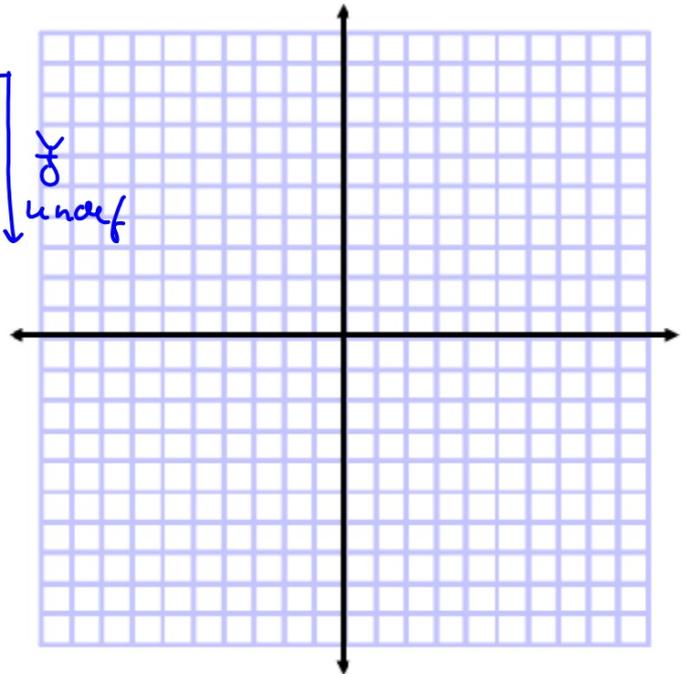
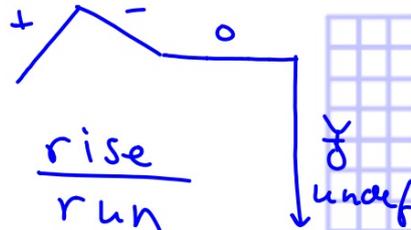
undefined slope

constant

linear

whiteboards

slope song



**Activity: Connect 4 and/or Bingo (if time)**

## Whiteboards

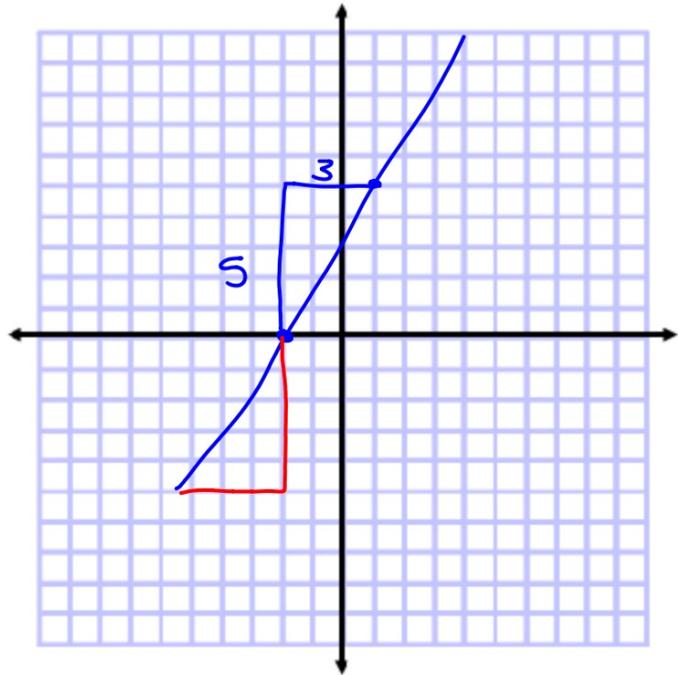
### Example 4 Positive, Negative and Zero Slope

Find the slope of a line that passes through each pair

a.  $(-2, 0)$  and  $(1, 5)$

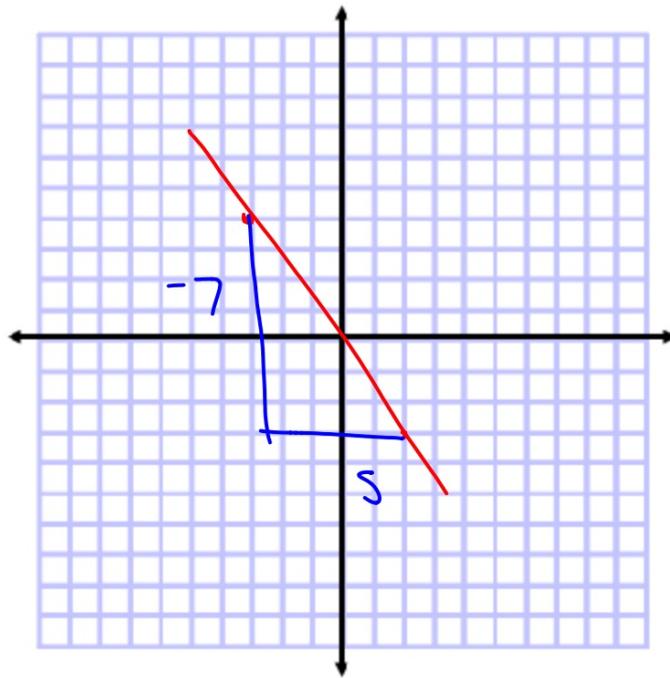
$$m = \frac{5}{3}$$

$$\frac{-5}{-3} = \frac{5}{3}$$



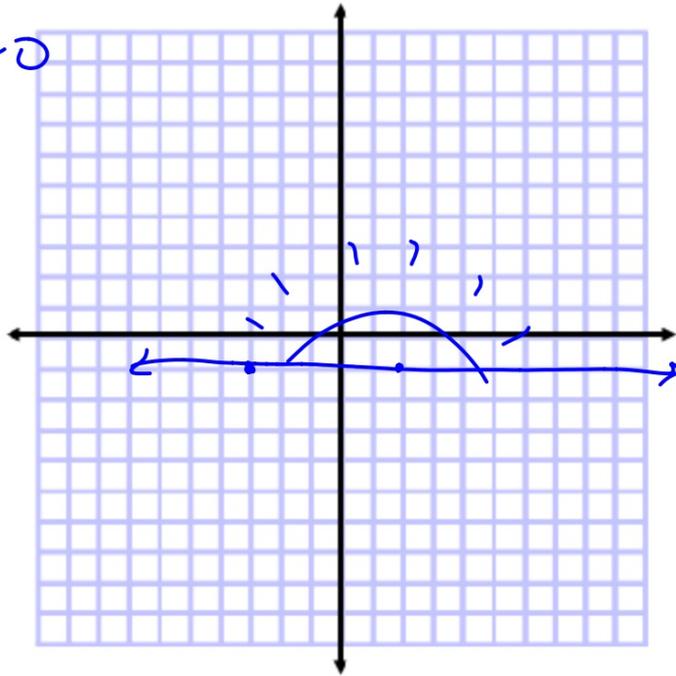
b.  $(-3, 4)$  and  $(2, -3)$

$$m = \frac{-7}{5}$$



c.  $(-3, -1)$  and  $(2, -1)$

$$\frac{0}{5} = 0$$



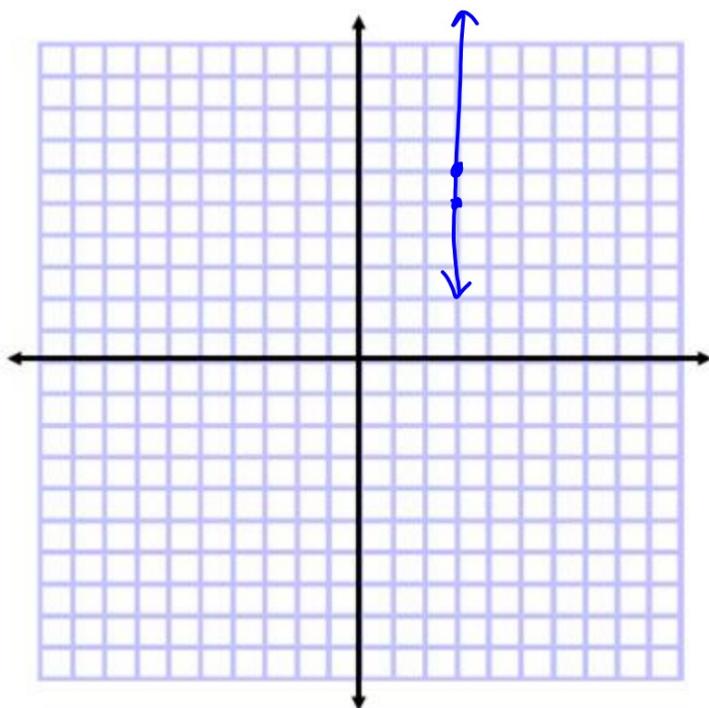
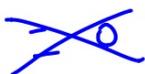
Guided Practice

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

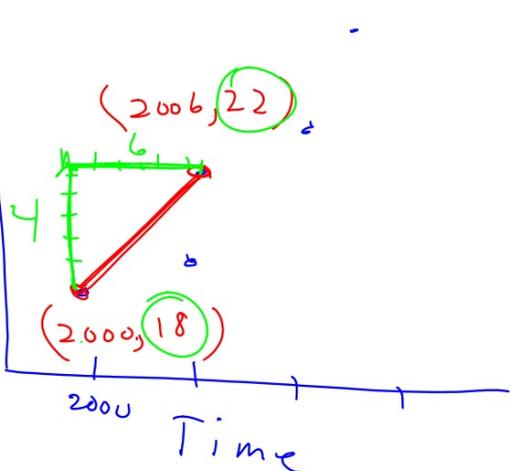
4A.  $(3, 6), (4, 8)$

4B.  $(-4, -2), (0, -2)$

4C.  $(-4, 2), (-2, 10)$



Earnings



$$m = \frac{\text{r.o.c.} \ 4}{6} = \frac{2}{3}$$