

# SLOPE

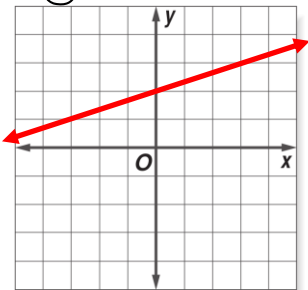
What is the  
definition  
of slope?

What are some  
methods we can use  
to determine slope?

What is the  
slope  
formula?

Determine the  
slope given  
two points:  
 $(-2, 3)$  and  $(4, -1)$

Determine the slope  
of the following  
graph:



What does a  
**positive**  
slope look like?

What does a  
**negative**  
slope look like?

What does a  
**zero**  
slope look like?

Determine the slope  
of the following  
table:

x	y
0	40
10	80
20	120
30	160
40	200

What does an  
**undefined**  
slope look like?

Slope is the steepness  
of a straight line

- The slope formula
- Rise/Run
- Table
- Graph

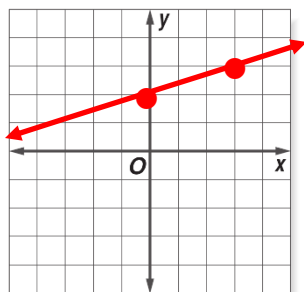
$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$(-2, 3)$  and  $(4, -1)$

$$m = \frac{-1 - 3}{4 - (-2)} = \frac{-4}{6} = \frac{-2}{3}$$

Use any two points  
on the line:

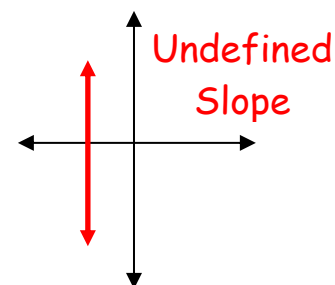
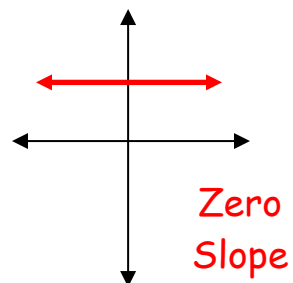
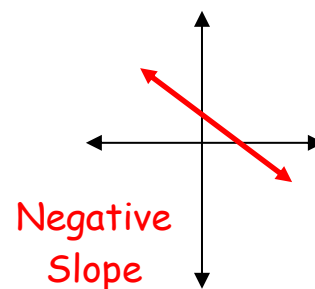
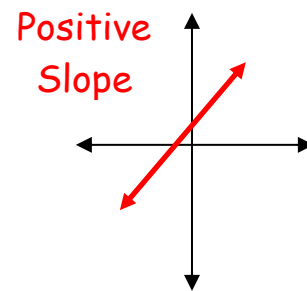
Rise/Run =  $\frac{1}{3}$



x	y
0	40
10	80
20	120
30	160
40	200

Change in  $y \div$  change in  $x$

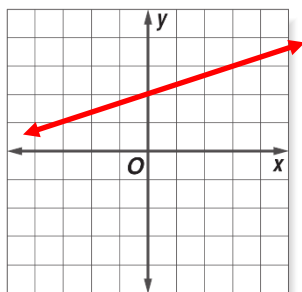
$$m = \frac{80 - 40}{10 - 0} = \frac{40}{10} = 4$$



Place glue  
everywhere  
EXCEPT in the  
rectangles.

Place glue  
everywhere  
EXCEPT in the  
rectangles.

You will be  
writing your  
answers in the  
rectangles.



$x$	$y$
0	40
10	80
20	120
30	160
40	200

