

**4 Different
Ways to
Find Slope**

**Slope Guided
Notes/
Graphic
Organizer**

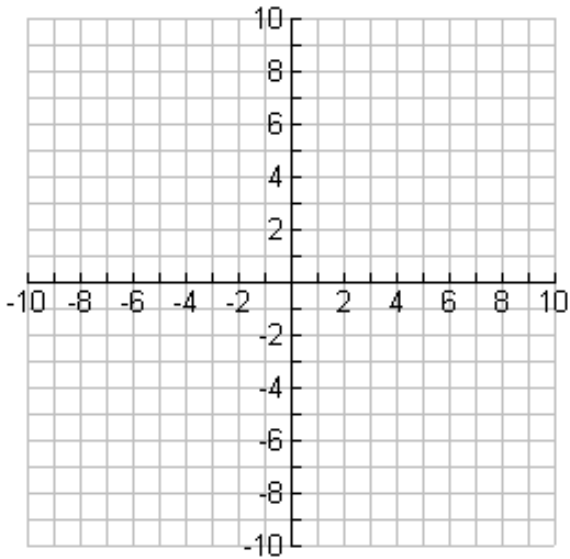
**Includes
Zero &
Undefined
Slope**

**JENNA
JACKSON**

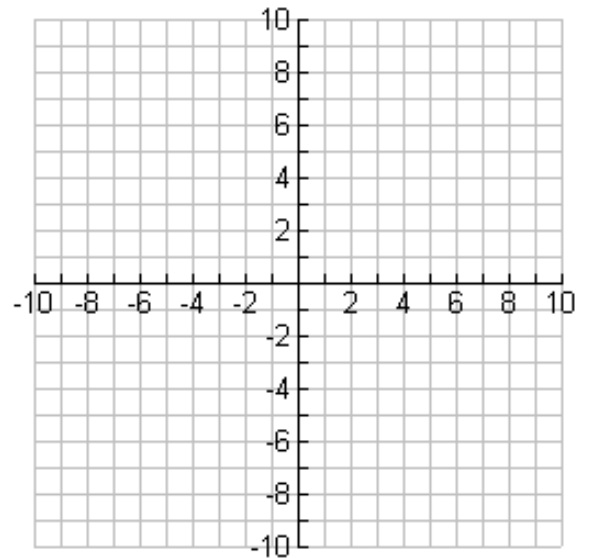
NAME: _____

SLOPE REFERENCE SHEET!

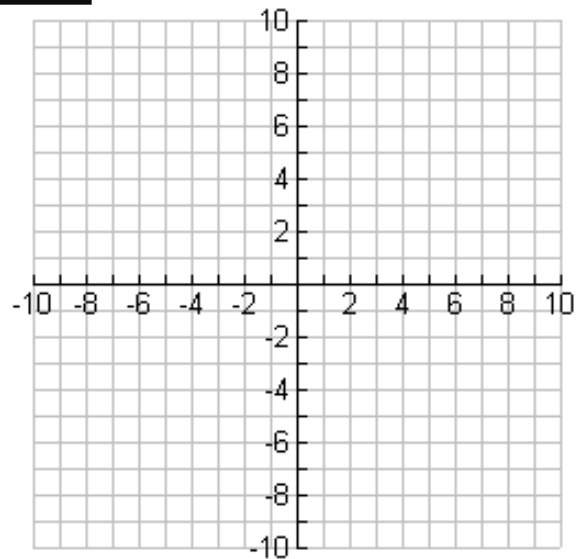
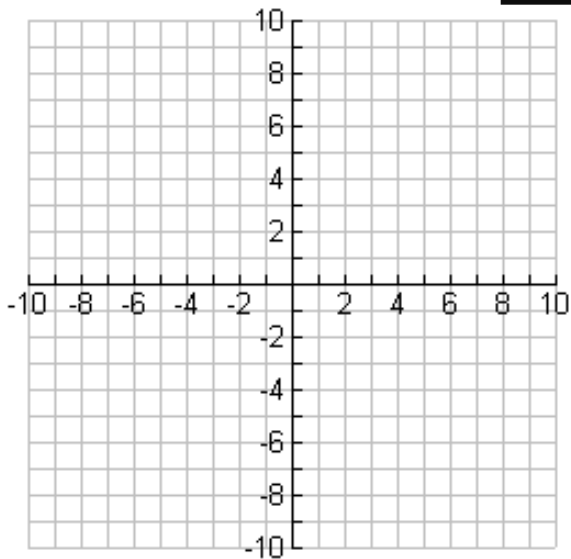
POSITIVE SLOPE



NEGATIVE SLOPE



TYPES OF SLOPE



ZERO SLOPE

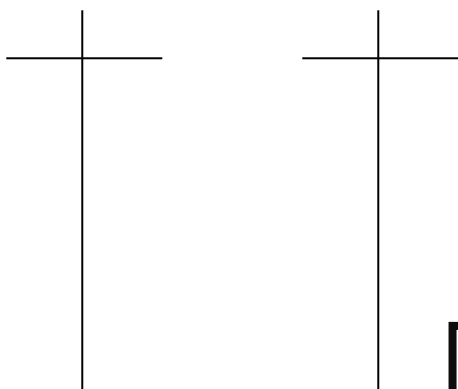
UNDEFINED SLOPE

NAME: _____

SLOPE REFERENCE SHEET!

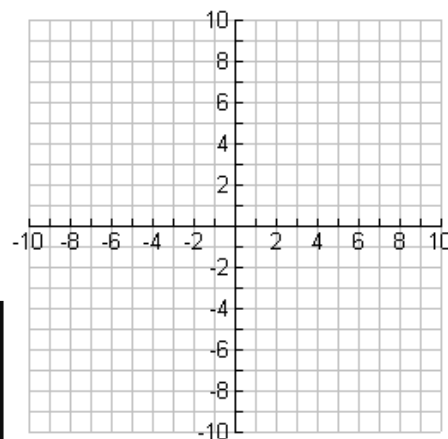
From a Table

1. Find the _____ of the x and y values
2. Write the slope as _____



From a Graph

1. Choose two _____ on the line
2. Count the _____ then the _____
3. Write the slope as _____



What is SLOPE?

Slope describes the _____ of a line.

1. Solve the equation for _____
2. Slope is the _____ of _____ therefore, it is next to the variable _____.
3. The slope is the _____ of x.

$$y = mx + b$$

1. Label the _____ and _____ coordinates.
2. Find the _____ of y and the _____ of x by _____
3. Write the slope as the _____ of _____ over the _____ of _____.

From an Equation

From Two Points

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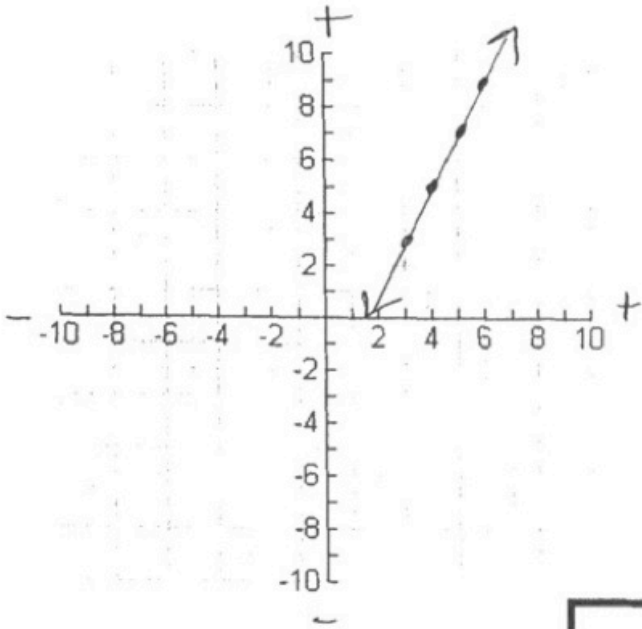


Jenna Jackson

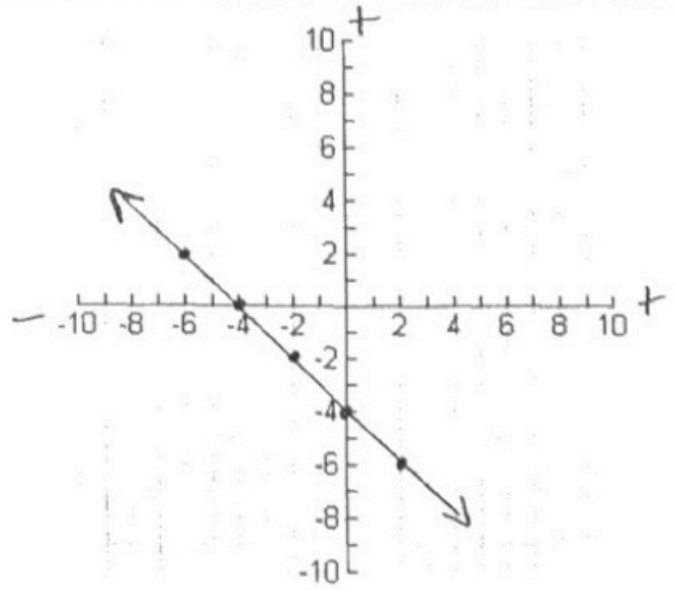
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SLOPE Reference Sheet!

POSITIVE SLOPE

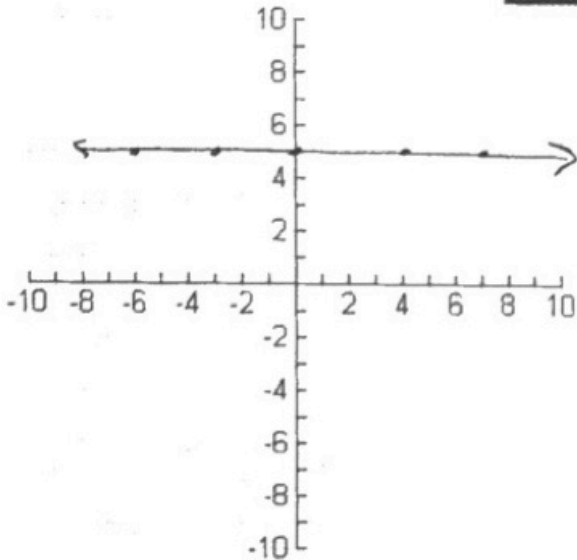


NEGATIVE SLOPE

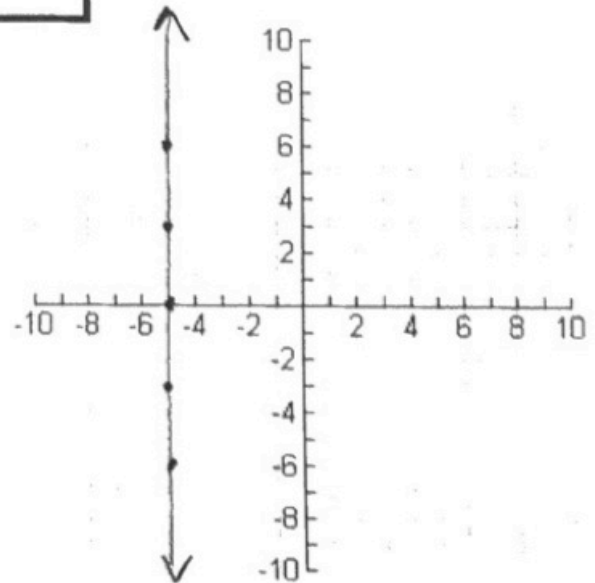


TYPES OF SLOPE

Negative



Zero



Undefined

ZERO SLOPE

UNDEFINED SLOPE

From a Table

1. Find the constant rate of the x and y values
2. Write the slope as $\frac{y}{x}$

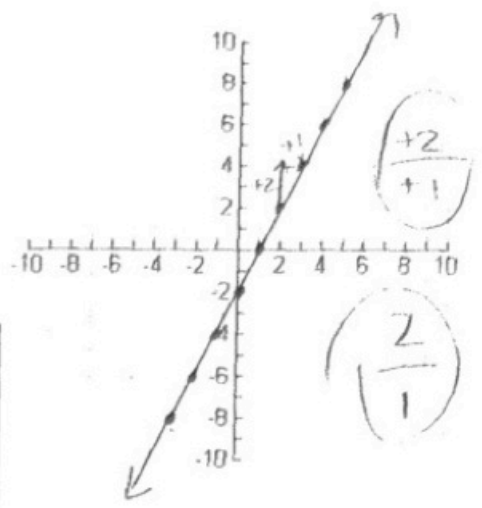
x	y	x	y
1	2	3	11
+1	+2	6	14
+1	+2	9	17
+1	+2	12	19
+1	+2	15	22
+1	+2	18	24
+1	+2	21	26
+1	+2	24	28
+1	+2	27	30
+1	+2	30	32

$\left(\frac{4}{3}\right)$

$\frac{12}{+1} = \left(\frac{2}{1}\right)$

From a Graph

1. Choose two points on the line
2. Count the rise then the run
3. Write the slope as $\frac{y}{x}$



What is SLOPE?

Slope describes the steepness of a line.

$\frac{\text{change } y}{\text{change } x} = \frac{\text{rise}}{\text{run}}$

1. Solve the equation for $\frac{y}{x}$
2. Slope is the rate of change therefore, it is next to the variable x.
3. The slope is the coefficient of x.

$y = mx + b$

1. $y = \left(\frac{1}{2}\right)x + 4$ $\frac{1}{2}$
2. $y = (-3)x - 2$ $-\frac{3}{1}$
3. $y = (16)x + 10$ $\frac{16}{1}$
4. $y = \left(\frac{3}{2}\right)x - 1$ $\frac{3}{2}$
5. $2(x+8) + y = 4$
 $2x + 16 + y = 4$
 $2x + y = -12$
 $y = (-2)x - 12$ $-\frac{2}{1}$

1. Label the x and y coordinates.
2. Find the change of y and the change of x by subtracting
3. Write the slope as the change of y over the change of x.

- $\frac{y-y}{x-x}$
1. $(-4, 7) (-6, -4)$
 $\frac{7 - (-4)}{-4 - (-6)} = \frac{11}{2}$
 2. $(3, 0) (-11, -15)$
 $\frac{0 - (-15)}{3 - (-11)} = \frac{15}{14}$
 3. $(2, -20) (5, 8)$
 $\frac{-20 - 8}{3 - 5} = \frac{-28}{-2} = \frac{14}{1}$

From an Equation

From Two Points