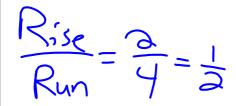
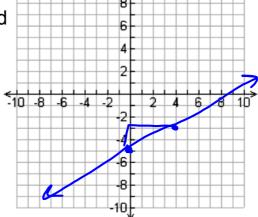
Do Now



Plot the following points and find the slope of the line:

(0,-5) and (4,-3)





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Homework Answers

1) 💈 👼

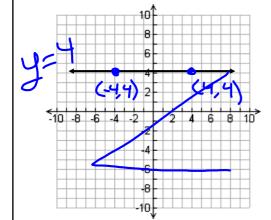
5) $\frac{5}{2}$

2) -2

6) 2

- 3) $\frac{-4}{9}$
- 4) $\frac{1}{6}$

Horizontal Line



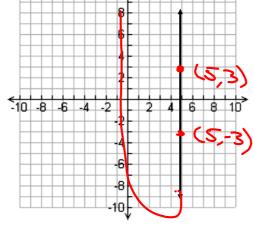
What type of slope does a horizontal line have?

$$\frac{Rise}{Run} = \frac{0}{8} = 0$$

$$Zero slope$$

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Vertical Lines



What type of slope does a vertical line have?

Risk = 6 = Undefined

No Stope

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Finding Slope

How would you find the slope of a line without having to graph it?

- 1) Take any 2 points on the line
- 2) Identify 1 point as (x_1,y_1) and the other as (x_2,y_2)
- 3) Calculate $y_2 y_1$, then divide it by $x_2 x_1$

Slope Formula = Change in y =
$$\frac{y_2 - y_1}{x_2 - x_1}$$

Change in x = $\frac{y_2 - y_1}{x_2 - x_1}$
 $\frac{x_3}{x_3}$
 $\frac{x_3}{x_3}$

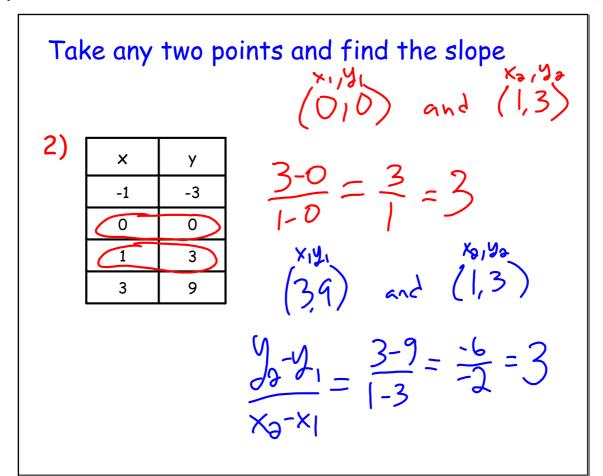
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Take any two points and find the slope

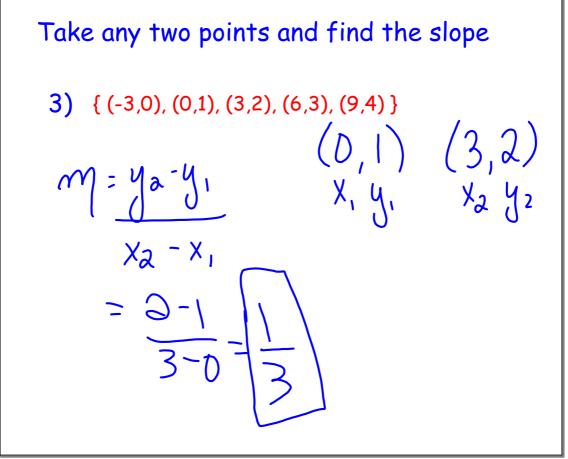
1)

×	У
-2	0
-1	1
6	(2)
2	4

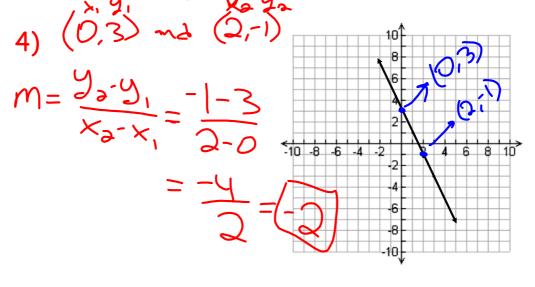
$$\frac{y_{3}-y_{1}}{y_{3}-x_{1}} = \frac{y_{2}-y_{1}}{y_{3}-x_{1}} = \frac{y$$



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Using the graph, Find the slope of the line using the Slope Formula



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