Date

## **Finding Slope From Two Points**

The slope of a line is a number that helps you understand how steep the line is.

To find the slope between two points  $(x_1, y_1)$  and  $(x_2, y_2)$ , use the formula below:

slope =  $\frac{\text{change in } y}{\text{change in } x} = \frac{y_2 - y_1}{x_2 - x_1}$ 

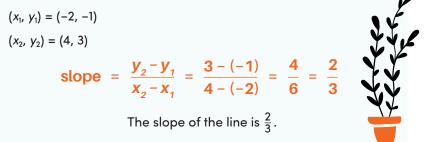
Make sure that the values you substitute

from the other point.

for  $x_1$  and  $y_1$  come from the same point! The values you substitute for  $x_2$  and  $y_2$  will come

## **Let's try an example!** Find the slope of the line that goes through the points (-2, -1)

and (4, 3). To start, choose one point to be your first point  $(x_1, y_1)$ and use the other as the second point  $(x_2, y_2)$ . Then use the slope formula and write the answer as a simplified fraction or integer.



Find the slope of the line that goes through the two given points for each problem. Make sure to write each slope as a simplified fraction or integer.

(1, 3) and (2, 5)	(3, 4) and (5, 2)	(2, 10) and (6, 12)
slope =	slope =	slope =
(8, 20) and (17, 15)	(9, 2) and (–1, 4)	(0, 7) and (1, −3)
slope =	slope =	slope =
(–9, 11) and (6, 6)	(5, −3) and (13, −5)	(23, 4) and (−7, −11)
slope =	slope =	slope =
(−4, −6) and (8, 2)	(−12, −1) and (−8, −5)	(−21, −18) and (−16, −3)
slope =	slope =	slope =

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