

2-1: Lines and Slopes



What Is a Line?

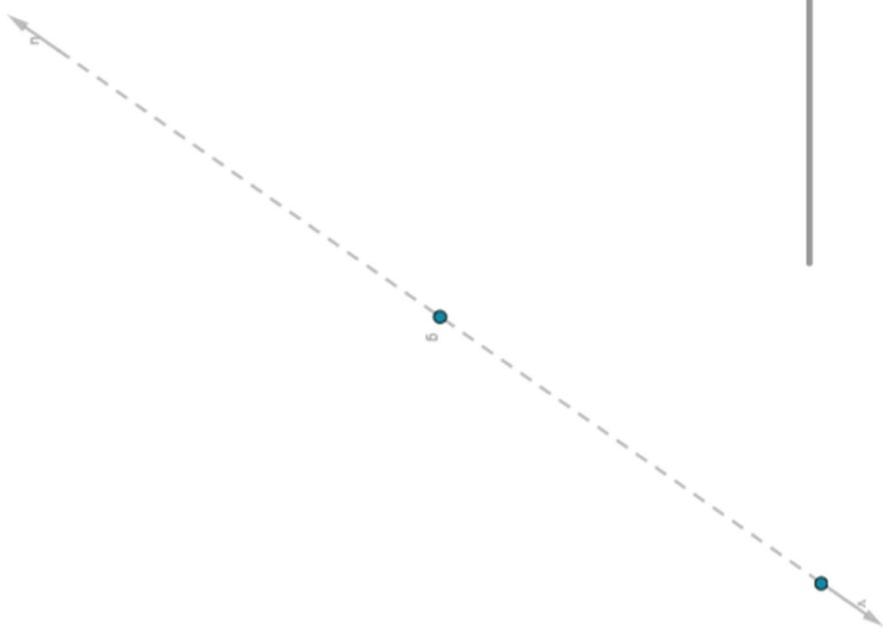
A line is a collection of infinite points that travel forever in only two directions.

Interactive Example

Move the slider below to see that a line is made of an infinite amount of points.

2

numOfPoints = 2



Learning Target

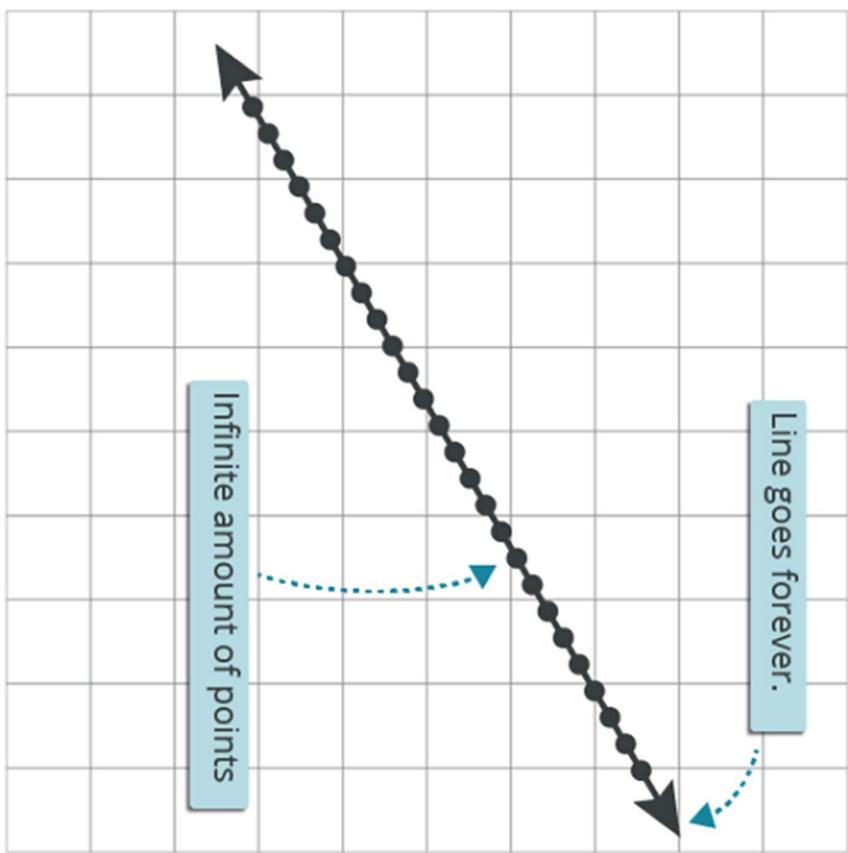
I can find slope of a line and use slopes to graph lines.

Example 1



Notice:

1. The line in the graph is perfectly straight.
2. The arrows at the ends of the line mean that the line continues forever in both directions.
3. There are an infinite amount of points that lie on the line.





Lines in the same plane fall into three categories: parallel, perpendicular, or neither. You can determine which category lines falls within by creating and graphing linear equations to find slope.

The relationship between slopes of lines can be seen graphically, by examining its equations, or by calculating from given points. Once you find slope, you will be able to determine if the lines are parallel, perpendicular, or neither.

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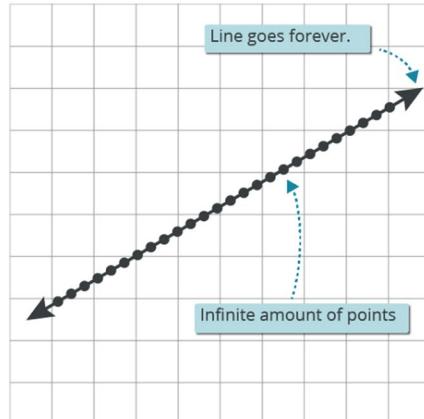
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Video

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