

Unit 5 Lesson 2 Slope

Warm Up: Identify the following as linear or non-linear.  
Justify your reasoning.

x	y
-6	11
-4	8
0	2
2	-1
4	-4
6	-7
8	-10

## Unit 5 - Linear Relations I

### Day 2 - Slope

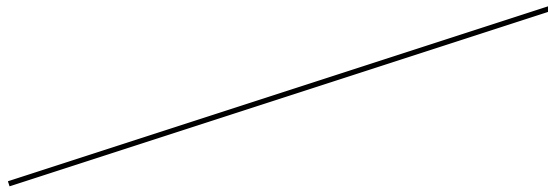
Today we will:

1. Define slope.
2. Identify different methods to determine slope of a line.

#### Lines and Slope

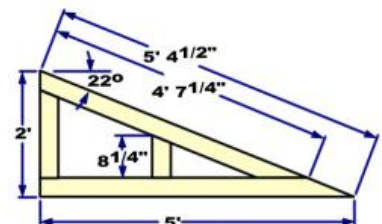
The slope of a line is the \_\_\_\_\_ of the line.

To calculate the slope, we look at the \_\_\_\_\_,  
both vertically and horizontally, from one \_\_\_\_\_ to another \_\_\_\_\_ on the line.



Why is being able to determine the steepness of a line an important skill?

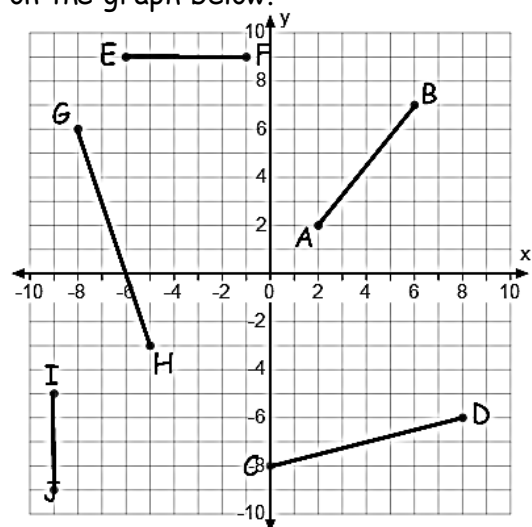
What is the slope of the skateboard ramp above?



Explain the meaning of the slope in this situation.

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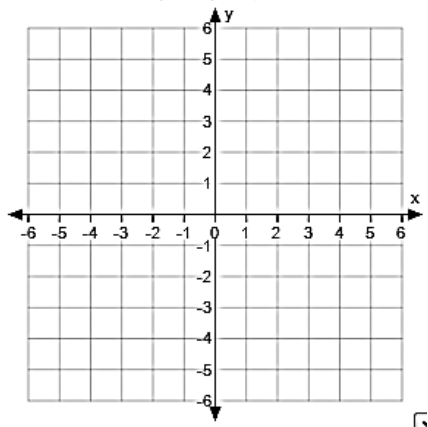
Example 1: Determine the slope of each line segment given on the graph below.



Is there a way to calculate the slope if we are not given the graph, but instead just have two points that are on the line?

Example 2: Given that a line has a slope of 4 and goes through the point  $B(3, -5)$ , find the coordinates of another possible point on the line.

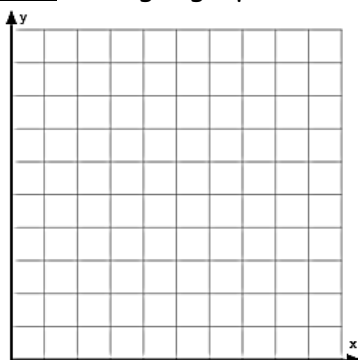
Method 1: Using a graph



Method 2: Using the coordinate

Example 3: Determine the slope of the line given by the table of values.

Method 1: Using a graph



Method 2: Using the table

X	Y
0	50
5	70
10	90
15	110
20	130