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Computing the Slope of a Line

$$m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$
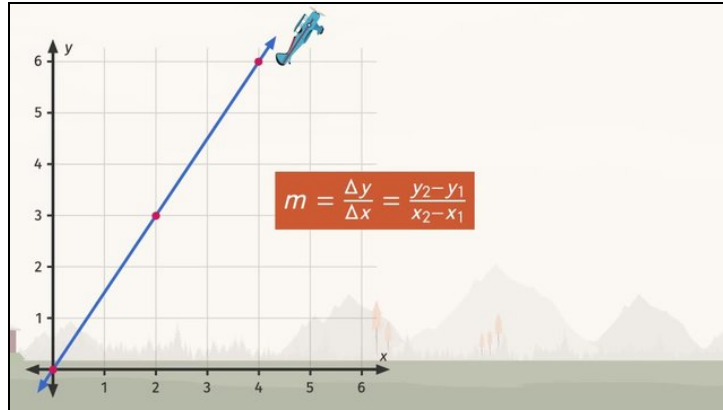
(1) **Identify some points on the line.**

(2) Describe how to find the slope of the line given two points.

(3) Find the slope of the line given a graph.

(4) Determine the slope of the lines given two points.

(5) Calculate the slope of the following situations.

(6) Identify the equations for the given graphs in slope intercept form.

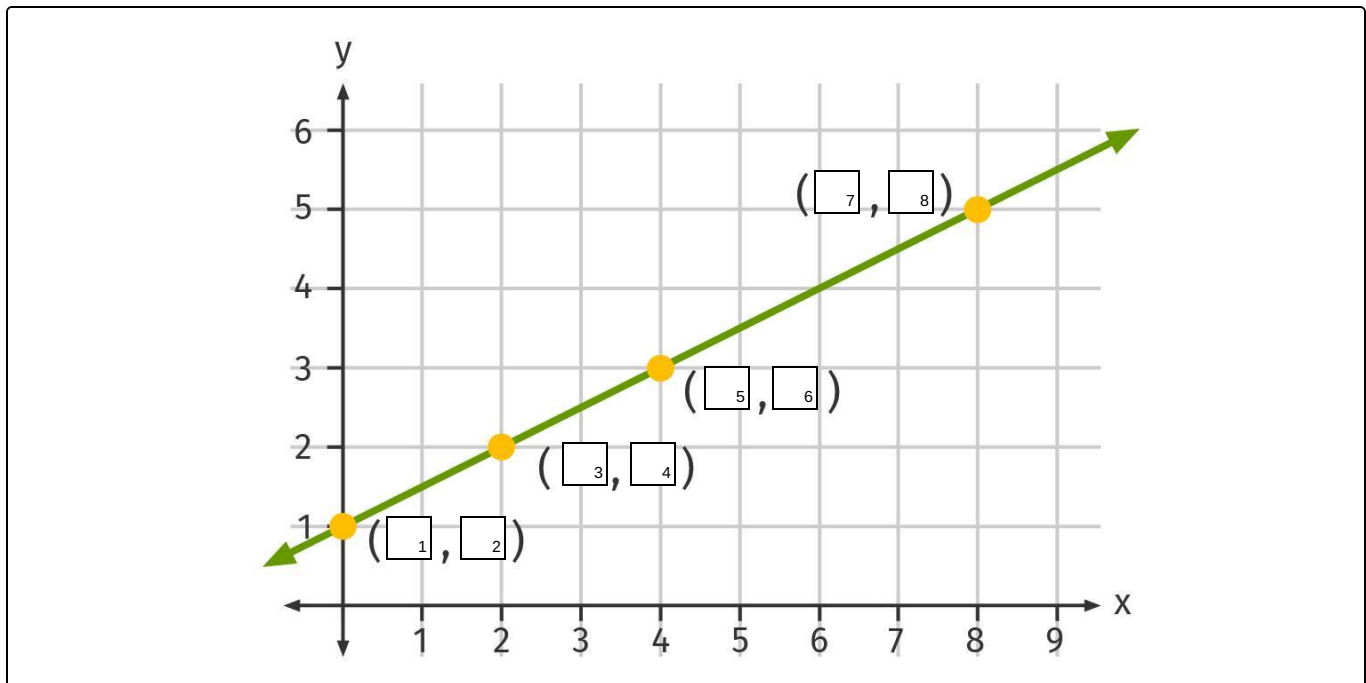**(+)** with lots of tips, answer keys, and detailed answer explanations for all of the problems.

⚠ The complete package, **including all problems, hints, answers, and detailed answer explanations** is available for all sofatutor.com subscribers.

Worksheet: Computing the Slope of a Line
Mathematics / Middle School / Linear Equations / Slope and Equations of Lines / Computing the Slope of a Line

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of 6

Identify some points on the line.

Fill in the blanks.

Hints for solving these problems

1 of 6   Identify some points on the line.

Hint #1

The first coordinate of a point is the x-coordinate and the second is the y-coordinate.

Hint #2

Draw a line from the point parallel to the x-axis and read off the y-coordinate: this is where the line passes the y-axis.

Similarly, you get the x-coordinate.

Answers and detailed answer explanations for these problems

1
of 6

Identify some points on the line.

Answer key: 1: 0 // 2: 1 // 3: 2 // 4: 2 // 5: 4 // 6: 3 // 7: 8 // 8: 5

To get the coordinates of any point you proceed as follows:

- Draw a line from the point parallel to the x-axis and read off the y-coordinate: This is where the line passes the y-axis.

- Draw a line from the point parallel to the y-axis and read off the x-coordinate: This is where the line passes the x-axis.

So you get, from left to he right, the following points:

- $(0, 1)$
- $(2, 2)$
- $(4, 3)$
- $(8, 5)$

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