

Mathematical Reflections

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In this investigation, you learned about the slope, or steepness, of a line. You learned how slope is related to an equation of the line and to a table or a graph of the equation. These questions will help you summarize what you have learned.

Think about your answers to these questions. Discuss your ideas with other students and your teacher. Then, write a summary of your findings in your notebook.

1. Explain what the slope of a line is. How does finding slope compare to finding the rate of change between two variables in a linear relationship?
2. How can you find the slope of a line from
 - a. an equation?
 - b. a graph?
 - c. a table of values of the line?
 - d. the coordinates of two points on the line?
3. For parts (a) and (b), explain how you can write an equation of a line from the information. Use examples to illustrate your thinking.
 - a. the slope and the y -intercept of the line
 - b. two points on the line