

Warm-Up Exploring Slope



Words to Know

Fill in this table as you work through the lesson. You may also use the glossary to help you.

to determine the value of
the amount of change in output that occurs based on change in input
the ratio of the change in the dependent values (outputs) to the change in the independent values (inputs) between two points on a line
an imagined or projected sequence of events

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Instruction

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Slide 2

Differentiating Positive and Negative Slope

This table represents the **scenario** of a change in water temperature over time, where x is seconds and y is the Fahrenheit temperature.

Determine from the table if the **rate** is increasing, decreasing, or neither.

Evaluate the slope for this scenario.

x	У
x ₁ = 3	<i>y</i> ₁ = 70
6	75
x ₂ = 9	<i>y</i> ₂ = 80
12	85
15	90

Slope =
$$\frac{y_2 - y_1}{x_2 - x_1}$$
$$= \frac{80 - \boxed{}$$
$$= \frac{10}{6}$$
Slope =
$$\frac{\boxed{}}{3}$$



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Exploring Slope



Differentiating Positive and Negative Slope

In this table, *x* represents months and *y* represents value of a car.

x	У
2	10,000
2	9,000
6	8,000
8	7,000
10	6,000

Determine from the table if the rate is increasing, decreasing, or neither.

What is the slope for this scenario?



As the values of x increase, the values of y decrease, so we say the rate is





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Summary

Exploring Slope



Lesson Question	How are slopes different from each other?
Answer	

Use this space to write any questions or thoughts about this lesson.