

Chapter 5 Linear Functions

Journal Entry:

What do you know about linear functions already? What makes something a linear function as opposed to a nonlinear function? What does the slope of a line on a graph describe?

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Section 5-1 Rate of Change and Slope

Students will be able to
-find the rates of change from tables
-find slope

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Look at the Solve It, Getting Ready problem on page 294 and answer the question.

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-You can use ratios to show a relationship between changing quantities, like vertical and horizontal change.

Rate of Change = $\frac{\text{change in the dependent variable}}{\text{change in the independent variable}}$

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The table shows the elevation of a hang glider over time.

Time (mins)	Elevation (ft)
1	360
2	325
3	290
4	255

Is the rate of change in elevation with respect to time constant?

What does the rate of change represent?

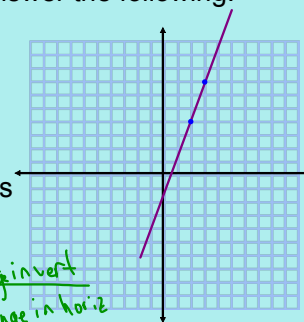
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Use the graph to answer the following:

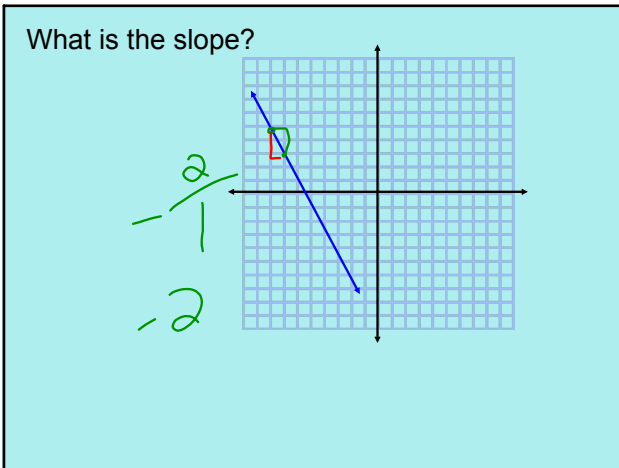
What is the slope?

What are some ways to think of slope?

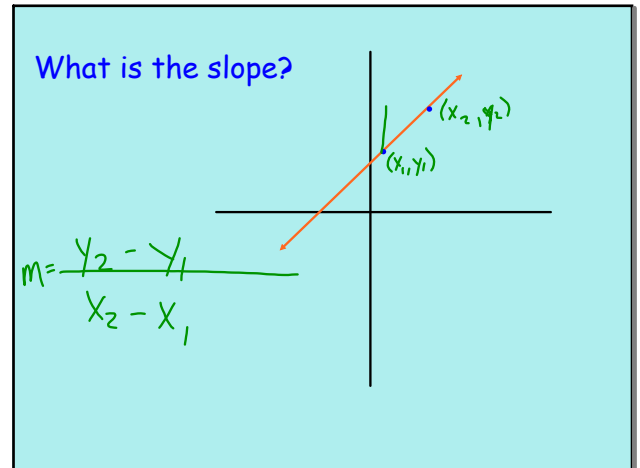
$\frac{\text{rise}}{\text{run}}$, $\frac{\text{change in vert}}{\text{change in horiz}}$



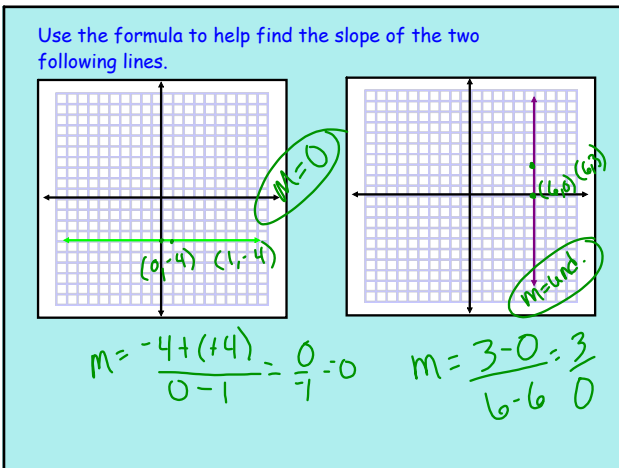
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Hwk: pg. 298 - 300
#8 - 24 evens, 28 - 29,
30 - 46 evens, 50, 58

Jan 7-2:31 PM