

Algebra 1
2-0 Slopes & Rates of Change

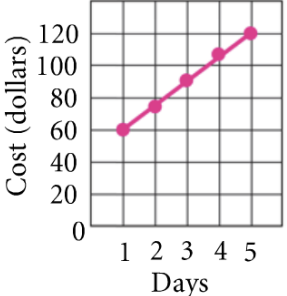
Name _____
 Date _____ **A#1-2**

Goal: To find the rate of change from a graph. To find slope.



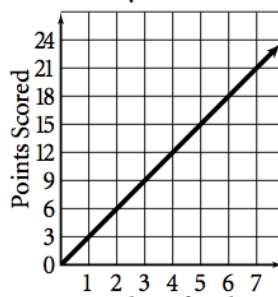
Rate of Change	Slope
...allows you to see the _____ between two quantities that are _____ $= \frac{\text{change in the } \boxed{} \text{ variable}}{\text{change in the } \boxed{} \text{ variable}}$	Slope is

Describe the situation in each graph. Then find the rate of change.

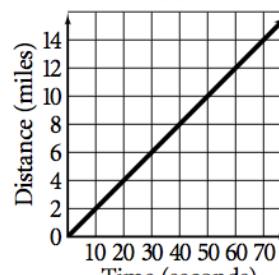
<p>Example 1</p> 	<p>Description & Rate of Change</p>
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Practice

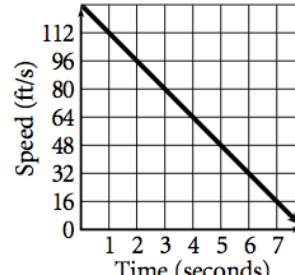
4. Points Scored for 3-point Baskets



5. Distance Sound Travels in Air



6. Speed



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Slopes of Lines

	<p>A line with <input type="text"/> slope slants upward from left to right.</p>		<p>A line with <input type="text"/> slope slants downward from left to right.</p>
	<p>A line with a slope of 0 is <input type="text"/>.</p>		<p>A line with an undefined slope is <input type="text"/>.</p>

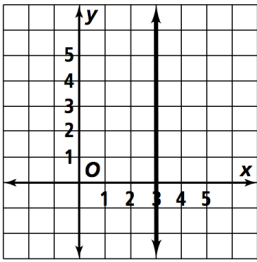
Roller Coaster:

Find the slope of the line using the graph and the two points.

<p>Example 2</p>	<p>Count the rise over run...</p>	<p>Substitute into the formula...</p>
<p>Example 3</p>		
<p>Practice A</p>		

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<p>Practice B</p> 	<p>Count the rise over run...</p>	<p>Substitute into the formula...</p>
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Find the slope of the line that passes through each pair of points.

<p>Example 4 $(-2, 5), (3, -4)$</p>	
<p>Example 5 $(2, 4), (6, 4)$</p>	

Practice

Find the slope of the line that passes through each pair of points.

13. $(-3, -2), (4, -2)$

14. $(4, -2), (4, 9)$

15. $(5, 2), (5, -4)$

Through the given point, draw the line with the given slope.

16. $P(3, -2)$
 slope 3

17. $K(0, 4)$
 slope -1

18. $M(-2, 3)$
 slope $-\frac{5}{3}$

