Section 1.3: Rate of Change

Slopes of Linear Graphs



Calculating Slopes of Linear Graphs

The slope of a linear graph can be calculated if you know the (x, y) coordinates of two different points along the graph.

These 2 points are called (x_1, y_1) and (x_2, y_2) .

2-point Slope Formula: $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{vertical \ cange}{horizontal \ change}$

What is the slope of this graph?



Formula Method:

Slope triangle method:

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What is the slope of this graph?

Formula method:



Slope triangle method:

Example:

8



On the graph, draw a line through point P that has a slope of $\frac{3}{4}$





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Special Slopes



Zero slopes: when the graph is _____



Undefined slopes: when the graph is _____

Check your understanding: Build your Skills, pg. 39 – 40, #1, 2, 3 Worksheet: Slope from a Graph, #1 - 8