

SECONDARY MATH II  
GRAPHING AND IDENTIFYING FUNCTIONS  
RATE OF CHANGE WS

NAME \_\_\_\_\_  
DATE \_\_\_\_\_  
CLASS \_\_\_\_\_

The average rate change is the following:

$$\frac{\text{change in output}}{\text{change in input}} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

Given two points from a table, graph or word problem you can determine the average rate of change between the two points. To find the rate of change you need to compute the slope.

Find the slope of the line connecting the following pairs of points.

1. (3, 6) and (-2, 8)

2. (1, 5) and (10, 4)

3. (-2, 9) and (-6, 2)

For the following table of data, find the average rate of change for the given intervals.

X	-3	0	3	6	9
Y	11	4	-1	3	-4

4. From 3 to 6

X	Y
3	
6	

5. From -3 to 3

X	Y
-3	
3	