Lesson 1-4 Average Rate of Change HW

Date

1. Find the average rate of change between the following points. (-2,5) (8,-1)

 $4 = \frac{\frac{1}{2} - \frac{1}{10}}{\frac{1}{2} - \frac{1}{10}} = \frac{-1 - \frac{3}{5}}{\frac{1}{10}} = \frac{-1 - \frac{3}{5}}{\frac{1}{10}} = \frac{-3}{5} = -0.6$

- 2. Sammie's savings account balance changed from \$1,450 in January 2014 to \$3030 in May 2014.
 - a. What would be the independent and dependent variables in this problem?

Independent: Month (time)

Dep: \$ in account

b. Find the average rate of change per month. Round your answer to the nearest dollar.

3030-1450 - 1580 - 1395 per Month

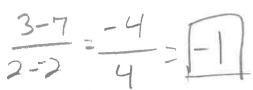
 Find the average rate of change from A − B. Describe the pattern of change.

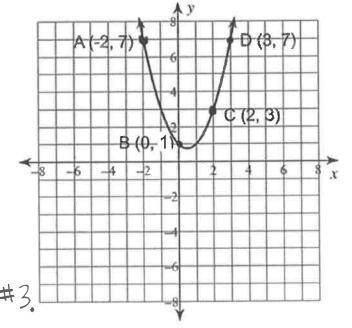
$$\frac{1-7}{0-2} = \frac{-6}{2} = \frac{1-3}{2}$$

Large Decrease.

4. Find the average rate of change from A-C.

Describe the pattern of change.





Decrease but not as Much as #3.

5. Find the average rate of change from A-D.

7-7 = 0 = 0 No increase of electricise

Same hight. Describe the pattern of change.

6. Using the table, find the average rate of change from when x = 1 and x = 4

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	х	f(x)
	0	5
#	1	1
	2	-3
	3	-7
A	4	-11

$$\frac{-11-1}{4-1} = \frac{-12}{3} = \boxed{-47}$$