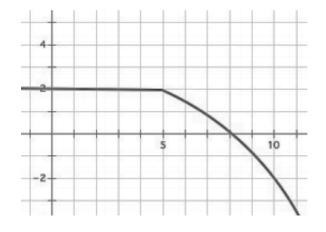
HW 2-7 HONORS: Average Rate of Change

Use the given graph or table to identify the average rate of change on the given interval.

- **1.** Average rate of change on the interval **[5,9]**.
- **2.** Average rate of change on the interval [4,7].



- **3.** Average rate of change on the interval [-8,-3].
- 4
- 5.

4. Average rate of change on the interval $[3,10]$.		2	
	-5		5 10
		-2-	
5. Average rate of change on the interval $[8,10]$.			

x	f(x)
0	2
1	- 3
2	0
3	2
4	6
5	12
6	20

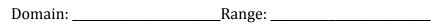
x	f(x)
1	4
2	10
3	5
4	8
5	3

n	f(n)
6	23
7	19
8	15
9	11

- **6.** Average rate of change on the interval [1,4].
- **7.** Average rate of change on the interval [2,4].
- 8. Average rate of change on the interval [7,8].

_ Why?	
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9. Is the graph below a function? _____



Continuity: (circle your answer) Continuous, Non-Continuous, or Discrete?

Increasing: _____ Decreasing: _____

minimum: _____ maximum: _____

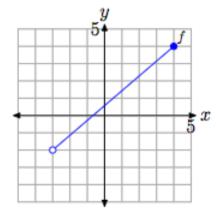
Positive: _____ Negative: _____

Use the graph above to answer the following:

10.
$$f(4) =$$

11. Find *x* such that
$$f(x) = 0$$
; $x =$ _____

12. Is the graph below a function? _____ Why?____



Domain: ______Range: _____

Continuity: (circle your answer) Continuous, Non-Continuous, or Discrete?

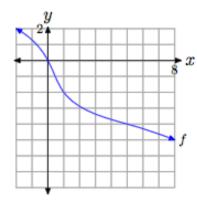
Increasing: Decreasing:

minimum: _____ maximum: _____

Positive: Negative:

x-intercept: ______ *y*-intercept: _____

13. Is the graph below a function? Why?



Domain: _____Range: _____

Continuity: (circle your answer) Continuous, Non-Continuous, or Discrete?

Increasing: _____ Decreasing: _____

minimum: _____ maximum: _____

Positive: _____ Negative: _____

x-intercept: ______ *y*-intercept: _____

Use the graph above to answer the following:

14.
$$f(1) =$$

15. Find x such that f(x) = -3; $x = _____$ **16.** $f(5) = _____$