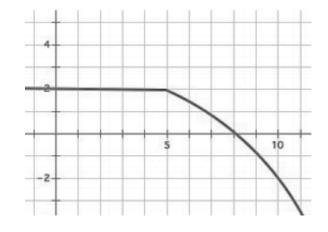
HW 2-7 HONORS: Average Rate of Change

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

	6		
	1		
	2		
		$\overline{}$	
-5		5	10
	-2-		
	-4-		

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

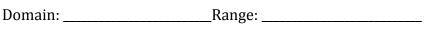
x	f(x)
1	4
2	10
3	5
4	8
5	3

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

- **6.** Average rate of change on the interval $\begin{bmatrix} 1,4 \end{bmatrix}$.
- **7.** Average rate of change on the interval **[2,4]**.
- **8.** Average rate of change on the interval **[7,8]**.

9. Is the graph below a function? _____

W	hy	?
		_



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

Increasing: _____ Decreasing: _____

minimum: _____ maximum: _____

Positive: _____ Negative: ____

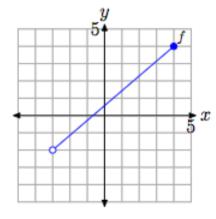
x-intercept: ______ *y*-intercept: _____

Use the graph above to answer the following:

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?

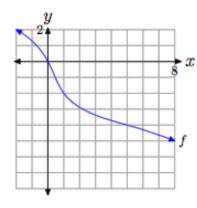
Increasing: Decreasing:

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: ____

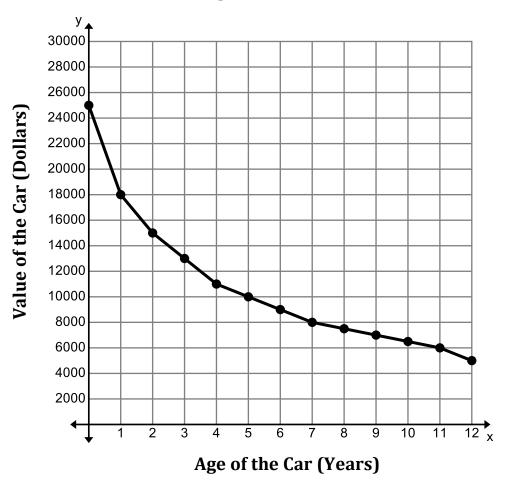
x-intercept: ______ *y*-intercept: _____

Use the graph above to answer the following:

14.
$$f(1) =$$

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

The graph below shows value of a car after purchase.



- 17. What is the average change for the value of the car over the interval [4,7]?
- 18. What is the average change for the value of the car over the interval of $\begin{bmatrix} 0,12 \end{bmatrix}$?