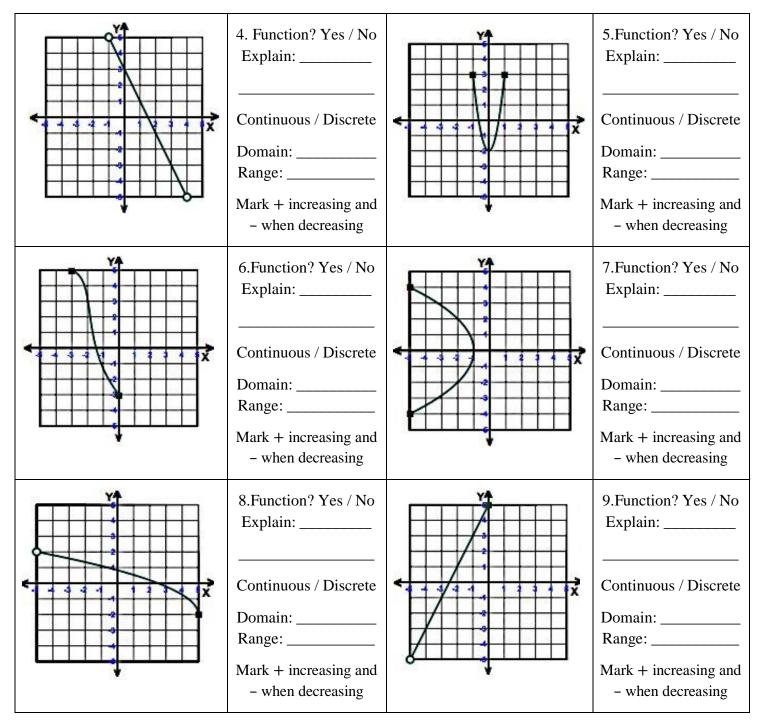
6B Domain/Range & Increase/Decrease Name ______Per: _____

SHOW YOUR WORK AND WORK IN PENCIL.

- 1. Define Domain:
- 2. Define Range:
- **3.** Explain when you would use a [Bracket] or a (parenthesis)

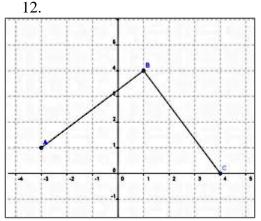
For each graph, determine if the relation represents a function. State the key features of each graph.



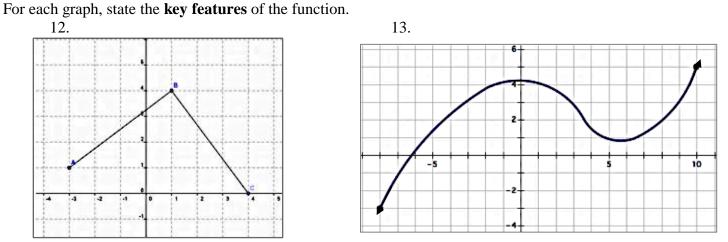
Find the range (outputs) for the given domains (inputs) of the functions. USE FUNCTION NOTATION. ; $x = \{-1, 0, 4, 6\}$

10.
$$f(x) = 3x - 5; x = \{-1, 0, 4, 6\}$$

for $Ex. f(-1) = -8$
11. $f(x) = 5(3x)$



- Interval(s) where the function is **increasing** a.
- Interval(s) where the function is **decreasing** b.
- What is the Domain? c.
- d. What is the Range?
- e. Is this function discrete or continuous?



- a. Interval(s) where the function is increasing
- b. Interval(s) where the function is decreasing
- c. What is the Domain?
- d. What is the Range?
- e. Is this function discrete or continuous?
- 14. For #12a above, the left end of the segment is included in the increasing interval. When listing that interval, use a _____. The right end of the interval is a point that is both increasing and decreasing, so use a ______.
- 15. Given f(x) = 3 4x. Fill in the table and then graph it.
 - a. Is the above relation a function?
 - b. Explain_____
 - c. State the Domain _____
 - d. State the Range
 - e. On what interval is the graph increasing?_____
 - f. On what interval is the graph decreasing?

X	f(x)
-3	
-2	
0	
1	
	-5

