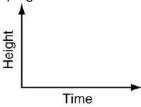
Name: \_\_\_\_\_\_Date: \_\_\_\_\_Block: \_\_\_\_\_

Sketch a graph for the given situation. Tell whether the graph is discrete or continuous.

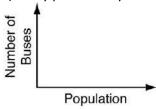
1) A giraffe is born 6 feet tall and continues to grow at a steady rate until it is fully grown.



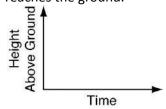
2) The price of a used car is discounted \$200 each week.



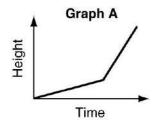
3) A city planner buys more buses as the population of her city grows.

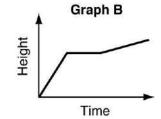


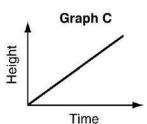
4) Joseph is sky-diving. At first, he is free-falling rapidly and then he releases his parachute to slow his descent until he reaches the ground.



5) Choose the graph that best represents each situation.







- 1. A tomato plant grows taller at a steady pace.
- 2. A tomato plant grows quickly at first, remains a constant height during a dry spell, then grows at a steady pace.
- 3. A tomato plant grows at a slow pace, then grows rapidly with more sun and water.

## Identify the independent and dependent variables. Write a rule in function notation for each situation.

6) Each state receives electoral votes based on the number of representatives it has in the House of Representatives.

Representatives	2	4	6	8
<b>Electoral Votes</b>	4	6	8	10

- 7) Ronaldo is buying bacon that costs \$4.29 per pound.
- 8) Carson charges \$7 per hour for yard work.
- 9) Kay donates twice what Ed donates.

Evaluate each function for the given input values.

- 10) For f(x) = 5x + 1, find f(x) when x = 2 and when x = 3.
- 11) For g(x) = -4x, find g(x) when x = -6 and when x = 2.
- 12) For h(x) = x 3, find h(x) when x = 3 and when x = 1.
- 13) An aerobics class is being offered once a week for 6 weeks. The registration fee is \$15 and the cost for each class attended is \$10. Write a function rule to describe the total cost of the class. Find a reasonable domain and range for the function. **Hint: The graph would be DISCRETE.**