## \#1

## Chapter 5 Review

a) The distance away from home as you walk to school and then walk back home
b)The temperature throughout the day in April in Nebraska.
c) The checking account balance as you deposit a check and then go shopping to two stores and write a check at each store.

## \#4

Make a table of values and graph the function $y=2 x-3$

| $x$ |
| :---: |
| -2 |
| -1 |
| 0 |
| 1 |
| 2 |



Match the graph with the corresponding situation
a) The amount of milk in Jill's bowl as she poured milk into her empty bowl, ate the cereal, then drank the milk that was left. b) The speed of Sam's car as he started his car, increased his speed, slowed down for a stop sign, then increased again while on the interstate.
c) The height of a tree that Heidi planted, then trimmed and allowed to grow again.


## \#3

Are the following relations functions? Explain why or why not.
a)

| $x$ | $y$ |
| :---: | :---: |
| 1 | 4 |
| 2 | 4 |
| 3 | 6 |
| 4 | 9 |

b)


## \#5

Make a table of values and graph the function $y=|x|+3$

| $x$ |
| :---: |
| -2 |
| -1 |
| 0 |
| 1 |
| 2 |


a) List three words that correspond to " $x$ "
b) List four words that correspond to " $y$ "

Using the function $f(x)=x^{2}-1$ and the domain $\{-2,0,2,4\}$, identify the range. 2, $, 2,4\}$ identify

## \#8

Label the following situations as discrete graphs or continuous graphs.
a) the graph of the growth (weight) of your pet guinea pig
b) the graph of the number of students per class
c) the graph of the speed of an airplane during a flight

> \#10
a) Write a function rule to determine the cost of books that costs $\$ 6.50$ each.
b) How much would it cost if you bought 5 books?
c) If you spent $\$ 26$, how many books did you buy?

## \#12

Find the slope of the line.


Find the rate of change

The cost of a car was $\$ 10,000$ in 1986 and $\$ 16,000$ in 1990.

## \#13

Find the slope of the lines with the following ordered pairs:
a. $(-5,3)$ and $(4,2)$
b. $(0,3)$ and $(1,-5)$

## \#15

a) Explain the difference between a discrete and a continuous graph.

Would the graphs of the following situations be discrete or continuous?
b) the height of a tree per year
c) the amount of money earner at a car wash per car

