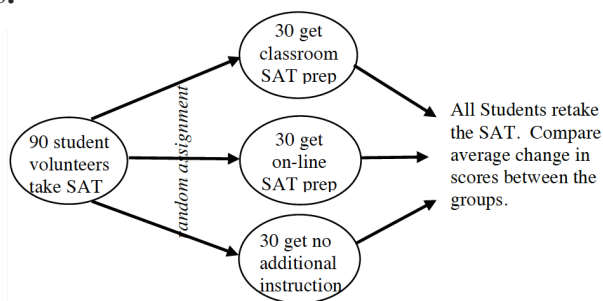


4-54.

In each of these, we could also notice that we only get responses from those who agree to participate in our polling activities—already a very unrepresentative sample.

- a. Not likely; this samples the population of people with phone numbers listed online that are home midday.
- b. Not likely; this samples the population of people who shop at that particular grocery store.
- c. Not likely; this samples the population of people who attend movies.
- d. Not likely; this samples the population of people who go downtown at the time you are there.
- e. This sample is likely to be more representative, as it is closer to random.

4-55.



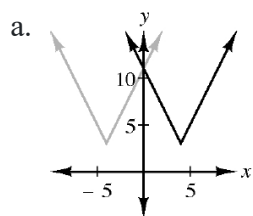
4-56.

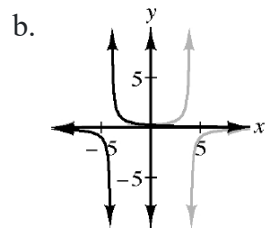
- a.  $x = 4$
- b.  $x = 9$

4-57.

$$\sin 5^\circ = \frac{d}{100}; d \approx 87.2 \text{ yards}$$

4-58.





c. Each function is neither odd nor even.

4-59.

a. not a function  
 D:  $-3 \leq x \leq 3$   
 R:  $-3 \leq y \leq 3$

b. function  
 D:  $-2 \leq x \leq 3$   
 R:  $-2 \leq y \leq 2$

4-60.

