

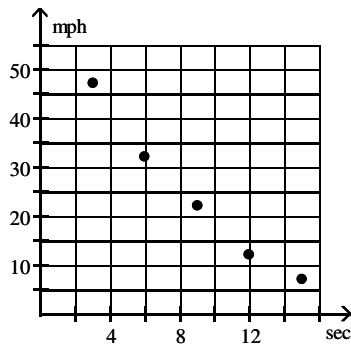
Name _____

Date _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Determine the domain and range.

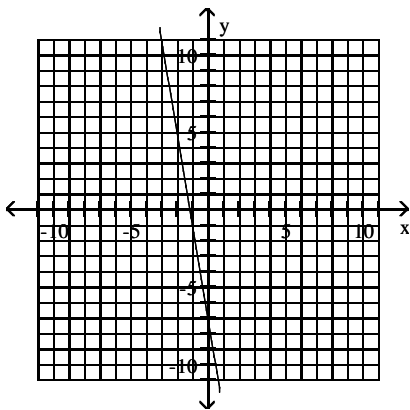
1) This graph shows the speed of a car, in miles per hour (mph), at various times after a driver applies the brakes.



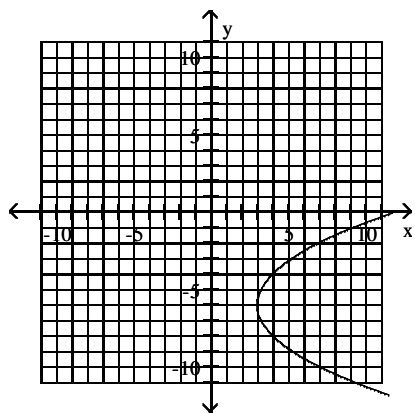
- A) Domain: {3, 6, 9, 12, 15}; range: {47, 32, 22, 12, 7}
 C) Domain: {4, 6, 9, 12, 15}; range: {47, 32, 22, 12, 7}

- B) Domain: {47, 32, 22, 12, 7}; range: {3, 6, 9, 12, 15}
 D) Domain: {3, 6, 9, 12}; range: {47, 32, 22, 12}

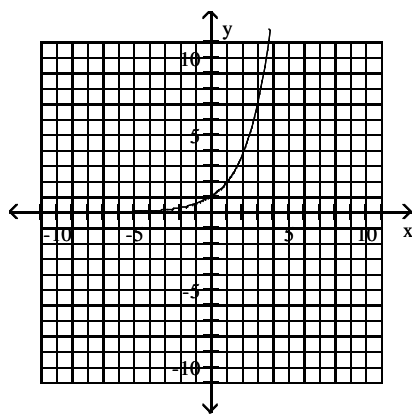
2)



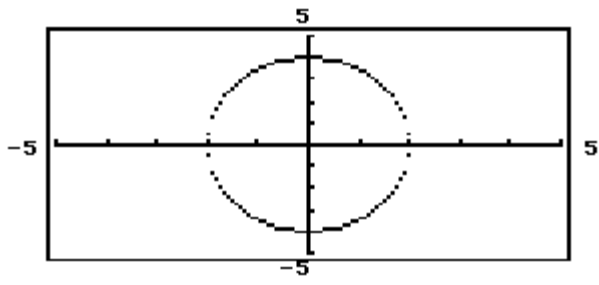
3)



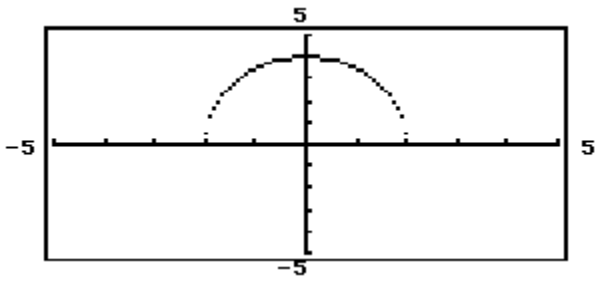
4)



5)

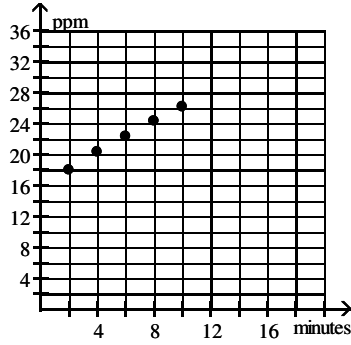


6)

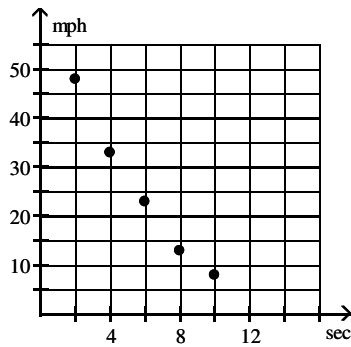


State whether the relation is a function.

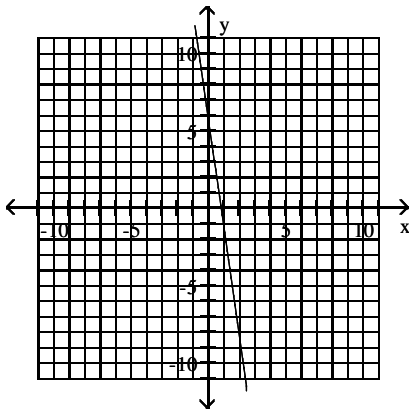
- 7) This graph shows the amount of dissolved hydrogen chloride, in parts per million (ppm), at various times during a chemical manufacturing process.



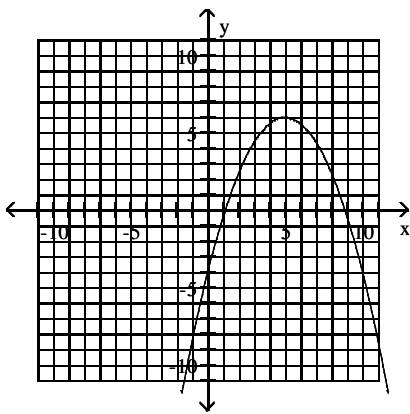
- 8) This graph shows the speed of a car, in miles per hour (mph), at various times after a driver applies the brakes.



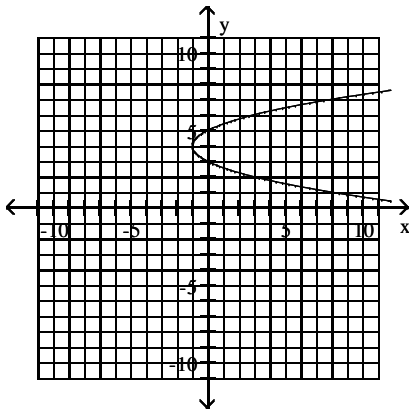
9)



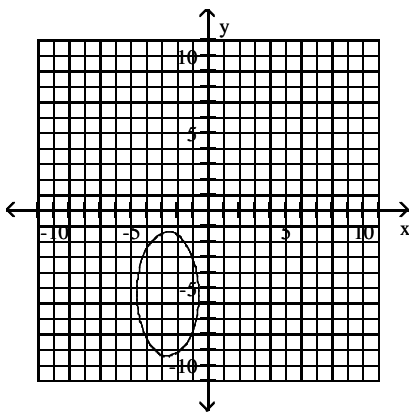
10)



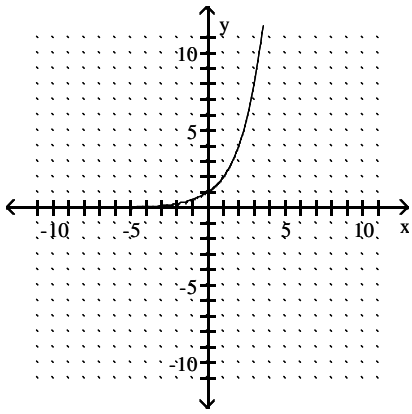
11)



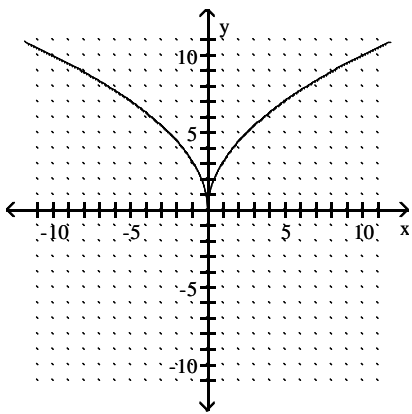
12)



13)



14)



Answer Key

Testname: 03-05CARSONFUNCTIONDOMAINRANGEV02

- 1) A
- 2) Domain: all real numbers; range: all real numbers
- 3) Domain: $\{x \mid x \geq 3\}$; range: all real numbers
- 4) Domain: all real numbers; range: $\{y \mid y > 0\}$
- 5) Domain: $\{x \mid -2 \leq x \leq 2\}$; range: $\{y \mid -4 \leq y \leq 4\}$
- 6) Domain: $\{x \mid -2 \leq x \leq 2\}$; range: $\{y \mid 0 \leq y \leq 4\}$
- 7) It is a function.
- 8) It is a function.
- 9) It is a function.
- 10) It is a function.
- 11) It is not a function.
- 12) It is not a function.
- 13) It is a function.
- 14) It is a function.