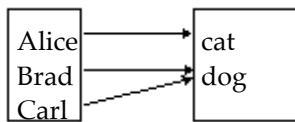


Relations and Functions

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

Determine whether the relation represents a function. If it is a function, state the domain and range.

1)



1) _____

A) function

domain: {cat, dog}

range: {Alice, Brad, Carl}

B) function

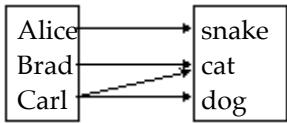
domain: {Alice, Brad, Carl}

range: {cat, dog}

C) not a function

2)

2) _____



A) function

domain: {Alice, Brad, Carl}

range: {snake, cat, dog}

B) function

domain: {snake, cat, dog}

range: {Alice, Brad, Carl}

C) not a function

3) $\{(-3, -6), (0, 5), (5, -3), (6, -1)\}$

A) function

domain: \{-6, 5, -3, -1\}

range: \{-3, 0, 5, 6\}

B) function

domain: \{-3, 0, 5, 6\}

range: \{-6, 5, -3, -1\}

C) not a function

3) _____

4) $\{(1, -4), (-3, -3), (-3, 0), (6, 3), (22, 5)\}$

4) _____

A) function

domain: \{-4, -3, 0, 3, 5\}

range: \{1, 6, -3, 22\}

B) function

domain: \{1, 6, -3, 22\}

range: \{-4, -3, 0, 3, 5\}

C) not a function

Determine whether the equation defines y as a function of x .

5) $x + 6y = 3$

5) _____

A) function

B) not a function

Determine whether the equation defines y as a function of x.

6) $x^2 + y^2 = 36$

- A) y is a function of x

6) _____

- B) y is not a function of x

7) $x + y^3 = 64$

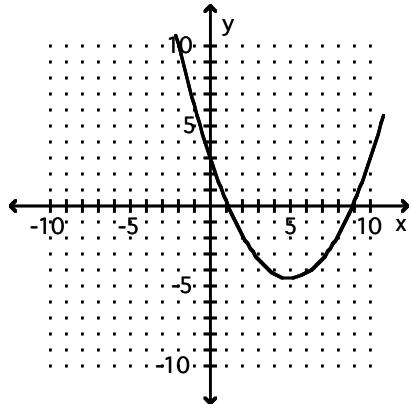
- A) y is a function of x

7) _____

- B) y is not a function of x

Decide whether the relation defines a function.

8)

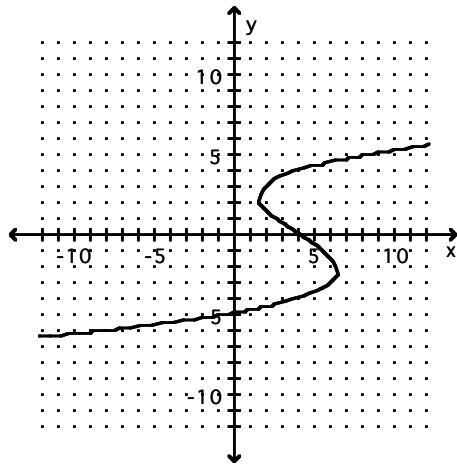


8) _____

- A) Not a function

- B) Function

9)



9) _____

- A) Function

- B) Not a function

10) Student Test Score

Name	Test Score
Bob L.	79
Susan H.	83
Jim H.	79
Bruce B.	96

- A) Function

10) _____

- B) Not a function

Answers:

- 1) B 2) C 3)B 4)C 5)A 6)B 7)A 8)B 9)B 10)A

Answer Key

Testname: RELATIONS AND FUNCTIONS

- 1) B
- 2) C
- 3) B
- 4) C
- 5) A
- 6) B
- 7) A
- 8) B
- 9) B
- 10) A