

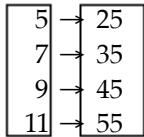
Relations and Functions

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: {5, 7, 9, 11}

range: {25, 35, 45, 55}

B) function

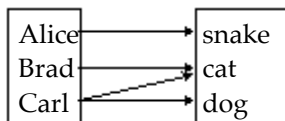
domain: {25, 35, 45, 55}

range: {5, 7, 9, 11}

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)}

3) _____

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

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

B) y is not a function of x

6) _____

7) $x + y^3 = 64$

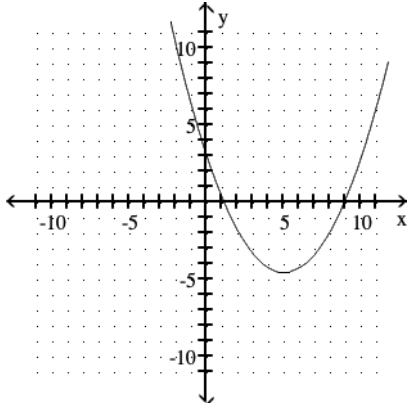
A) y is a function of x

B) y is not a function of x

7) _____

Decide whether the relation defines a function.

8)

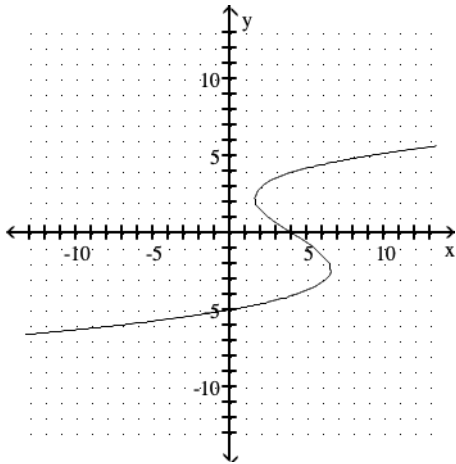


A) Not a function

B) Function

8) _____

9)



A) Function

B) Not a function

9) _____

10) Student Test Score

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

A) Function

B) Not a function

10) _____

Answers:

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