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Due Dec. 7

Date: 12/5/20

MAT110NA: College Algebra

**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)

x	y
5	25
10	50
15	75
20	100

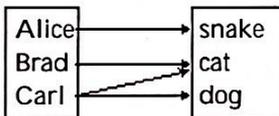
A) function  
 domain: {25, 50, 75, 100}  
 range: {5, 10, 15, 20}

B) function  
 domain: {5, 10, 15, 20}  
 range: {25, 50, 75, 100}

C) not a function

1) B

2)



A) function  
 domain: {snake, cat, dog}  
 range: {Alice, Brad, Carl}

B) function  
 domain: {Alice, Brad, Carl}  
 range: {snake, cat, dog}

C) not a function

2) C

3)  $\{(-1, -7), (0, 5), (5, 0), (8, -2)\}$

A) function  
 domain: {-1, 0, 5, 8}  
 range: {-7, 5, 0, -2}

B) function  
 domain: {-7, 5, 0, -2}  
 range: {-1, 0, 5, 8}

C) not a function

3) A

4)  $\{(41, -3), (5, -2), (5, 0), (9, 2), (21, 4)\}$

A) function  
 domain: {41, 9, 5, 21}  
 range: {-3, -2, 0, 2, 4}

B) function  
 domain: {-3, -2, 0, 2, 4}  
 range: {41, 9, 5, 21}

C) not a function

4) C

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

5)  $y = |x| \Rightarrow y = x^2$

A) function

B) not a function

5) A

Find the value for the function.

6) Find  $f(-1)$  when  $f(x) = x^2 + 2x + 5$ .

A) 4

B) 8

C) -6

D) -2

$$f(-1) = (-1)^2 + 2(-1) + 5$$

$$= 1 - 2 + 5$$

$$f(-1) = 4$$

6) A