

Q1 Relation, Discrete, Continuous, Function, Domain & Range Assignment 8-9

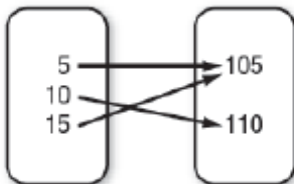
Name: _____ Date: _____ Period: _____

Find the domain and Range and decide whether it is a function.

1. (2,-3) (-5,8) (-5,6) (0,7) Domain : _____ Range _____ Is it function ? ____

(0,-5) (-1,4.5) (-5,6.8) (0,7) Domain : _____ Range _____ Is it function ? ____

2.



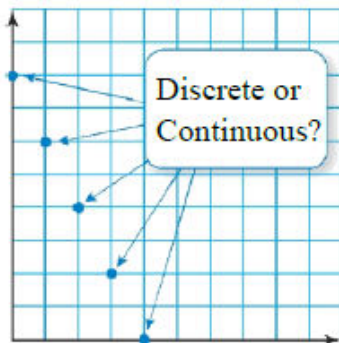
Domain : _____ Range _____ Is it function ? ____

x	y
-2	-1
-2	1
-1	0
1	0
2	1

Domain : _____ Range _____ Is it function ? ____

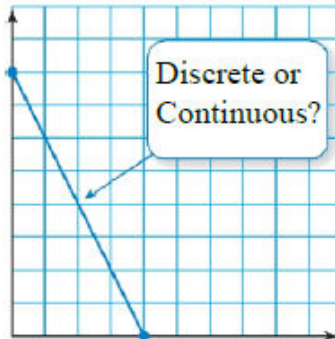
Find the domain and Range of the graphs. State the domain is discrete or continuous and decide whether the graph is a function by vertical line.

3.



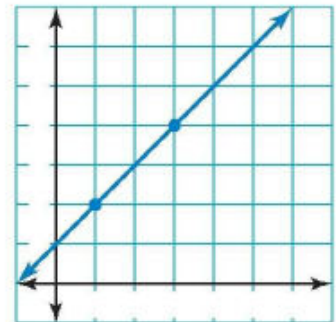
Domain: _____
 Range: _____
 Is it a function _____?

4.



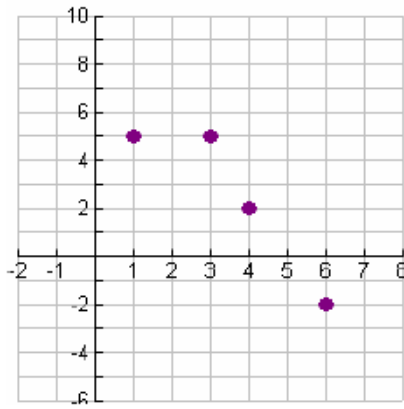
Domain: _____
 Range: _____
 Is it a function _____?

5.



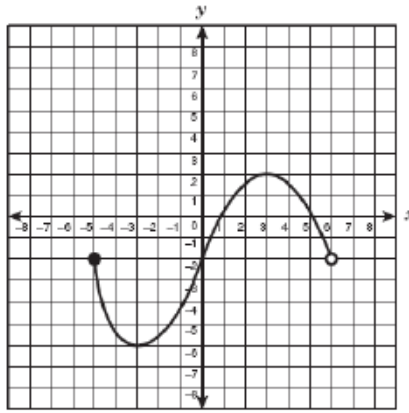
Domain: _____
 Range: _____
 Is it a function _____?
 Discrete or Continuous? ____

6.



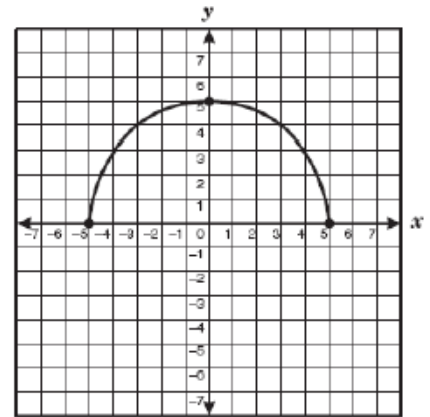
Domain: _____
 Range: _____
 Is it a function _____?
 Discrete or Continuous? ____

7.



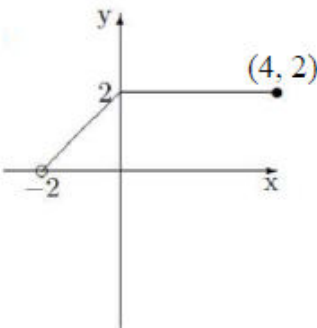
Domain: _____
 Range: _____
 Is it a function _____?
 Discrete or Continuous? ____

8.



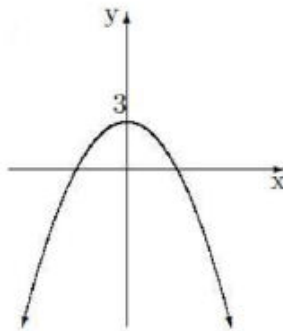
Domain: _____
 Range: _____
 Is it a function _____?
 Discrete or Continuous? ____

9.



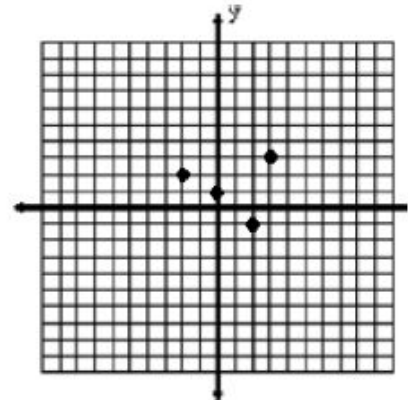
Domain: _____
 Range: _____
 Is it a function _____?
 Discrete or Continuous? ____

10.



Domain: _____
 Range: _____
 Is it a function _____?
 Discrete or Continuous? ____

11.

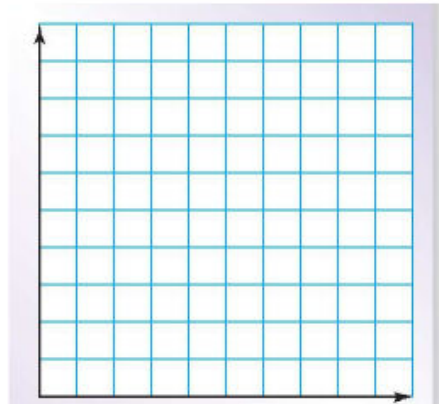


Domain: _____
 Range: _____
 Is it a function _____?
 Discrete or Continuous? ____

Graph the function. Is the domain of the graph discrete or continuous? Find the domain and range.

12.

Bags, x	Marbles, y
2	20
4	40
6	60
8	80



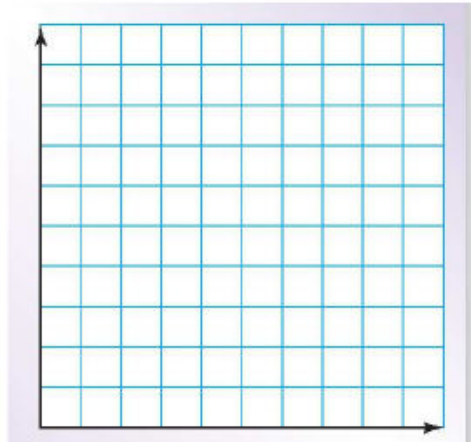
Is domain discrete or continuous?

Domain _____

Range _____

13.

Hats, x	Dollars, y
2	10
4	20
6	30
8	40



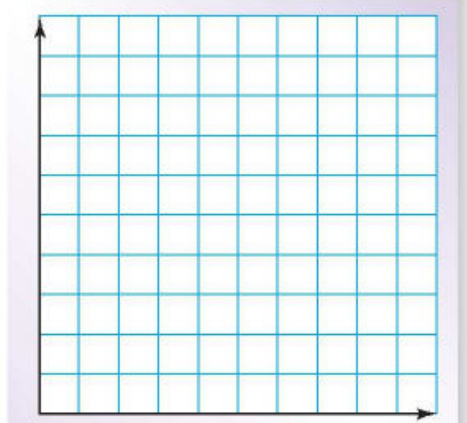
Is domain discrete or continuous?

Domain _____

Range _____

14. A cereal bar contains 130 calories. The number c of calories consumed is a function of the number b of bars eaten. *you can eat part of cereal bar.

The number of cereal bar	calories
0	0
2	10
4	20
6	30



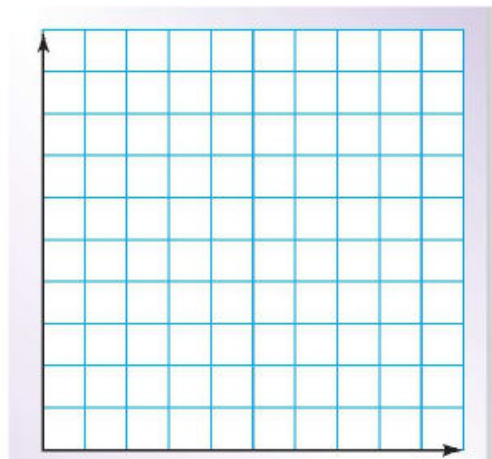
Is domain discrete or continuous?

Domain _____

Range _____

15. You conduct an experiment on the speed of sound waves in dry air at 86 °F. You record your data in a table.

Time, t (seconds)	Distance, d (miles)
2	0.434
4	0.868
6	1.302
8	1.736



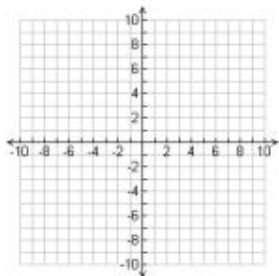
Is domain discrete or continuous?

Domain _____

Range _____

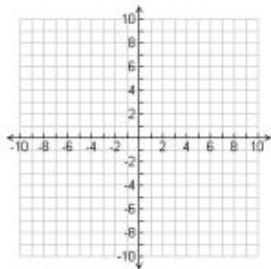
Draw a graph with the following domain and range. Identify whether the relation is a function and whether it is continuous or discrete (circle one).

16) Domain: $\{1\}$
Range: $\{-1, 3, 6\}$



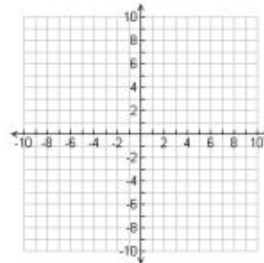
Function? _____
Continuous or Discrete?

17) Domain: $0 \leq x \leq 7$
Range: $-4 \leq y \leq 6$



Function? _____
Continuous or Discrete?

18) Domain: all real numbers
Range: all real numbers



Function? _____
Continuous or Discrete?