Domain & Range - Algebra

Name: _____

Complete the sentence.

1. The collection of all output values is called the _____ of a function.

2. The collection of all input values is called the _____ of a function.

Identify the domain & range of the function.

3.

Input	Output
1	8
3	7
5	6
7	5

4.

Input	Output
7	4
2	2
5	1
3	5

5.

Input	Output
0.4	15
0.5	13
0.6	11
0.7	9

Domain:

Range:

Domain:

Range:

Domain:

Range:

6. $\{(-2,2),(0,5),(1,6),(1,7),(2,-1),(3,2)\}$

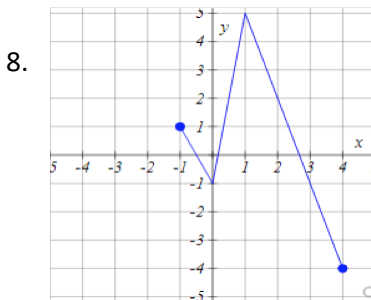Domain:
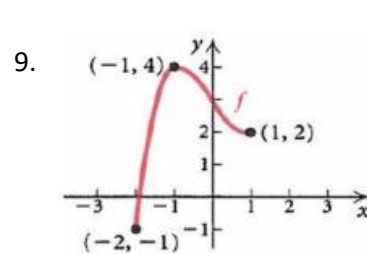
Range:

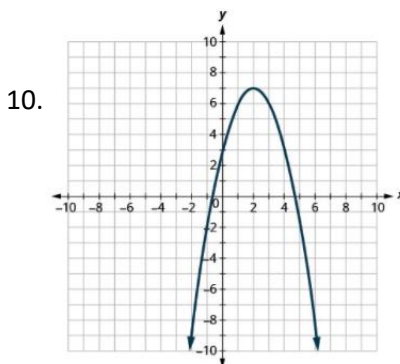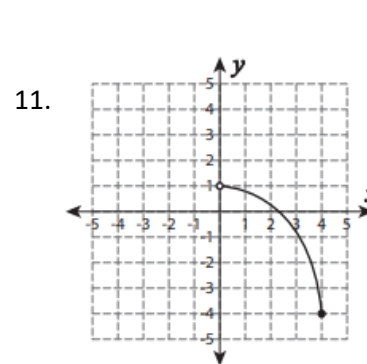7. $\{(0,1),(2,-1),(3,2),(4,2),(5,3),(-5,1)\}$
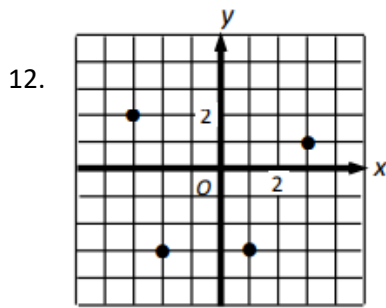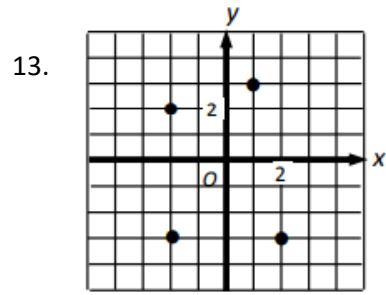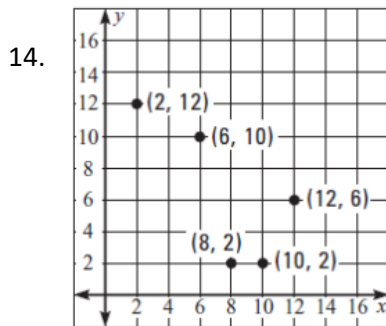
Domain:

Range:

8.

Domain:

Range:

9.

Domain:

Range:

10.

Domain:

Range:

11.

Domain:

Range:

12.

Domain:

{ -3, _____, _____, 3}

Range:

{ -3, _____, _____ }

13.

Domain:

{ ___, _____, ___ }

Range:

{ ___, ___, ___ }

14.

What is the domain of this scatterplot?

What is the range of this scatterplot?

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15. Clarissa received a $15.00 iTunes gift card to download music. Each song costs $3.

What is the domain of the function?

What is the range of the function?

Can Clarissa purchase 12 songs? Why or why not?

16. A plumber charges a fixed cost of $80 per day plus an additional cost of $45 per hour. The plumber works a maximum of 8 hours per day.

What are the minimum and maximum number of hours the plumber can work in a day?

What is the domain of the function? Use inequality notation.

What are the minimum and maximum costs for hiring the plumber for a day?

What is the range of the function? Use inequality notation.