Algebra 1: 1.2 Homework – Day 2 **Name** _____ **Period** _____
Analyzing and Sorting Graphs

Write the following information beside each graph:

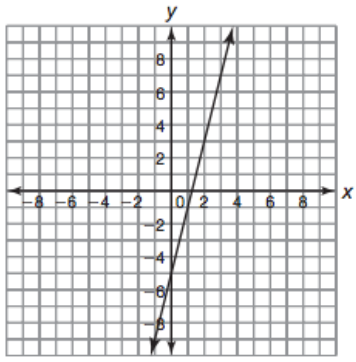
Function family, i.e. linear, quadratic, exponential, linear piecewise, or absolute value

Discrete or continuous

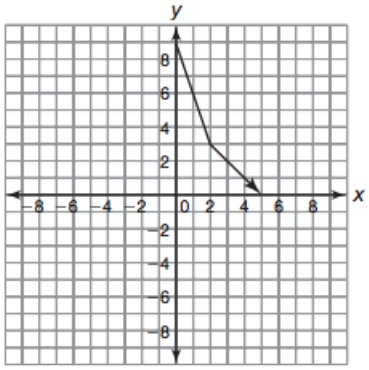
Increasing, decreasing, constant, or combination

Absolute minimum or maximum

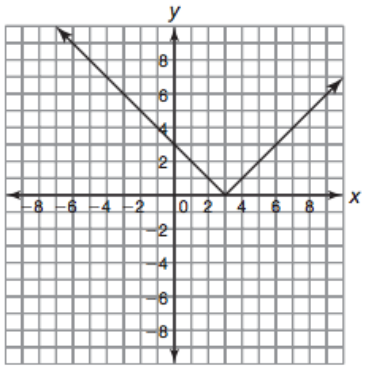
1.



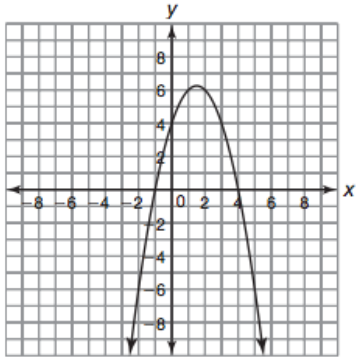
2.



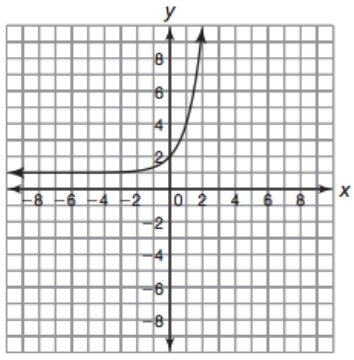
3.



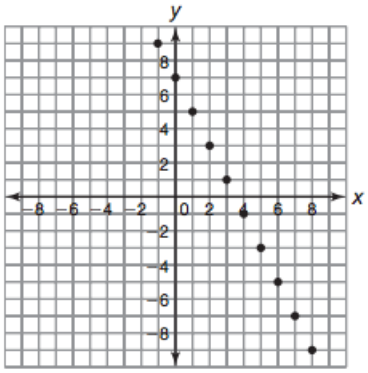
4.



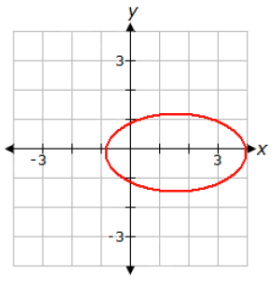
5.



6.



7. **Use the vertical line test to determine if the graph is a relation, a function, both a relation and a function, or neither a relation nor a function.**



   A. **Relation only**
   B. **Function only**
   C. **Both a relation and a function**
   D. **Neither a relation nor a function**

8. **Circle the T-table that represents a function.**

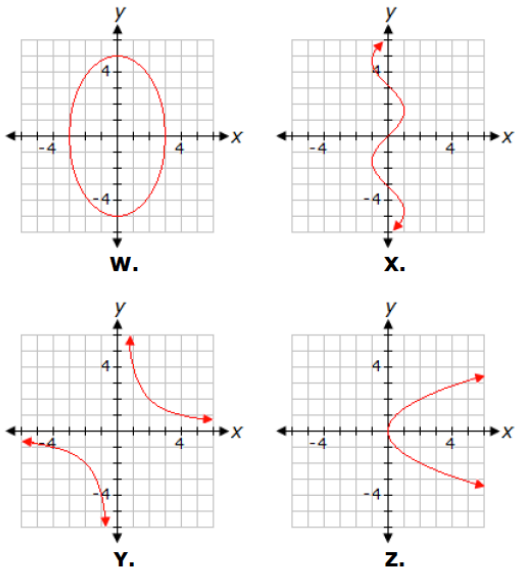
x	f(x)
5	-1
3	0
5	1
7	2

x	f(x)
2	-2
0	0
2	2
8	4

x	f(x)
-2	0
0	2
2	0
1	1.7

x	f(x)
-2	0
0	2
2	0
0	-2

9. **Circle the graph that represents a function.**



10. **Circle the relation that describes a function.**

   A. { (0, 0), (0, 2), (2, 0), (2, 2) }

   B. { (2, 2), (2, 3), (3, 2), (3, 3) }

   C. { (2, -1), (2, 1), (3, -1), (3, 1) }

   D. { (-2, -3), (-3, -2), (2, 3), (3, 2) }

11. Do the ordered pairs represent a relation, a function, both a relation and a function, or neither a relation nor a function?

(-2, -1), (1, - 4), (7, -10), (8, -11)

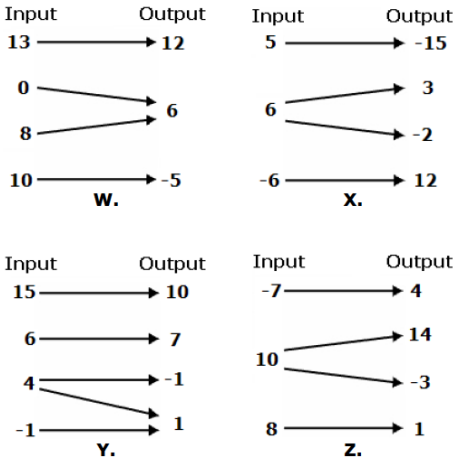
A. **Relation only**

B. **Function only**

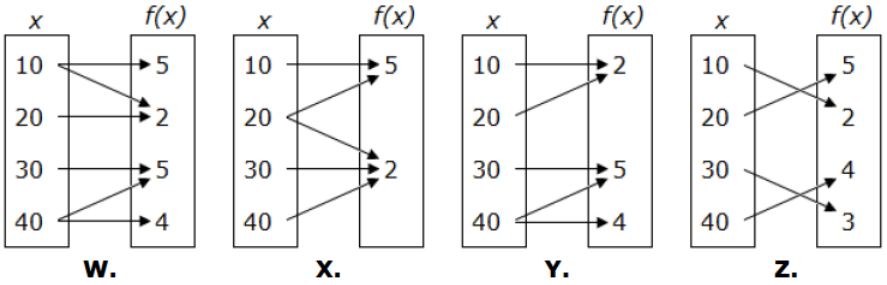
C. **Both a relation and a function**

D. **Neither a relation nor a function**

12. Circle the relation diagram that represents a function.



13. Circle the mapping that represents a function.



14. What is the domain and the range of the following relation?

{(0, 0), (1, -1), (1, 1), (2, 2)}

Domain: **Range:**

15. What is the domain and range of the following T-table?

Domain:

Range:

x	*f(x)*
-1	-1
0	0
1	1
2	8