3.1

Practice Worksheet #2

In Exercises 1 and 2, find the domain and range. Then, determine whether the relation is a function. Explain.

1.

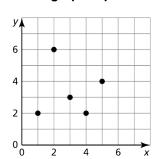
Input, x	8	4	2	4	8
Output, y	-4	-2	0	2	4

2.

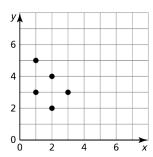
Input, x	0	2	4	6	8
Output, y	3	7	11	15	19

In Exercises 3 and 4, find the domain and range. Then, determine whether the graph represents a function. Explain.

3.

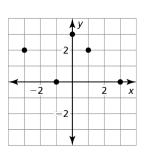


4

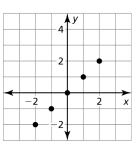


In Exercises 5 - 8, find the domain and range of the function represented by the graph.

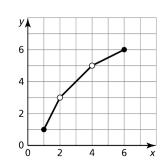
5.



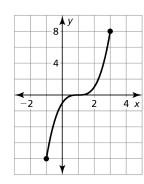
6.



7.



8.



9.	The function $y = 7x + 35$ represents the monthly cost y (in
dollars) of a group of x members joining the fitness club.

a.	Identify 1	the inder	pendent and	dependent	variable

b. Your group has enough money for <u>up to</u> six members to join the fitness club. Make an input-output table for the given function.

c. Find the domain and range of the function.

In Exercises 10 and 11, determine whether the statement uses the word *function* in a way that is mathematically correct. Explain your reasoning.

- **10.** A function pairs each teacher with 30 students.
- **11.** The cost of mailing the package is a function of the weight of the package.