

3.1

Practice A

In Exercises 1 and 2, determine whether the relation is a function. Explain.

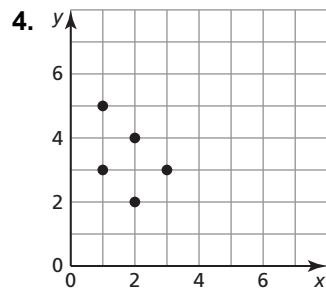
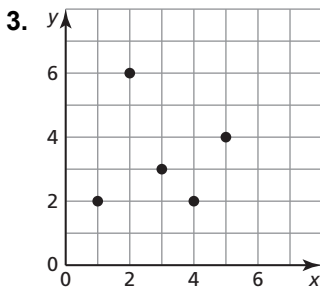
1.

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

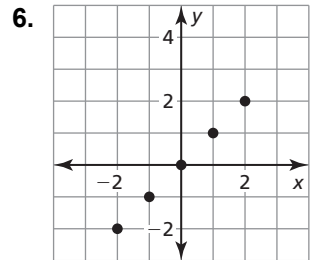
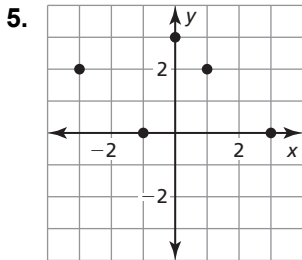
2.

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

In Exercises 3 and 4, determine whether the graph represents a function. Explain.



In Exercises 5 and 6, find the domain and range of the function represented by the graph.



7. The function $y = 7x + 35$ represents the monthly cost y (in dollars) of a group of x members joining the fitness club.
- Identify the independent and dependent variables.
 - Your group has enough money for up to six members to join the fitness club. Find the domain and range of the function.

In Exercises 8 and 9, determine whether the statement uses the word *function* in a way that is mathematically correct. Explain your reasoning.

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