## Name\_\_



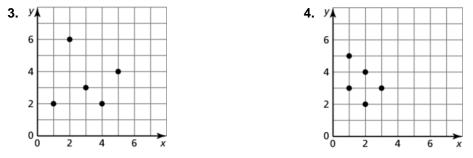
## Practice A & B

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

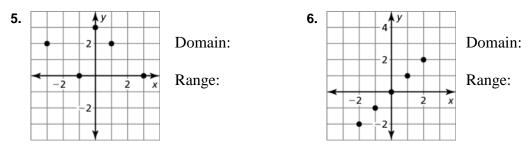
1.	Input, <i>x</i>	8	4	2	4	8
	Output, y	-4	-2	0	2	4

Input, <i>x</i>	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.
  - **a.** Identify the independent and dependent variables.



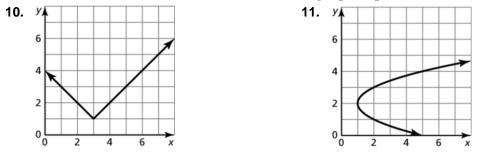
**b.** Your group has enough money for up to six members to join the fitness club. Find the domain and range of the function.

Domain: \_\_\_\_\_\_ Range: \_\_\_\_\_

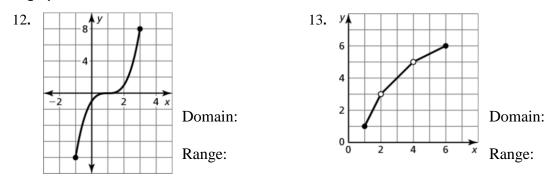
In Exercises 8 and 9, determine whether the statement uses the word *function* in a way that is mathematically correct. Explain your reasoning.

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

In Exercises 10 and 11, determine whether the graph represents a function. Explain.



In Exercises 12 and 13, find the domain and range of the function represented by the graph.



- 14. The function 2x + 1.5y = 18 represents the number of book raffle tickets x and food raffle tickets y you buy at a club event.
  - **a.** Solve the equation for *y*.
  - **b.** Make an input-output table to find ordered pairs for the function.

**c.** Plot the ordered pairs in a coordinate plane.

