

3.1

Practice A

In Exercises 1 and 2, determine whether the relation is a function. Explain. Find the domain and range for each relation

1.

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

Function? _____

Domain: _____

Range: _____

2.

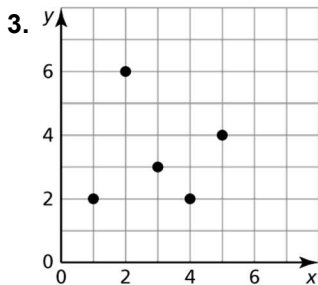
Input, x	0	2	4	6	8
Output, y	3	7	11	15	19

Function? _____

Domain: _____

Range: _____

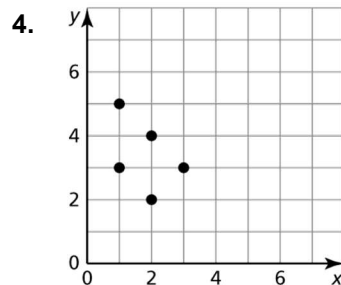
In Exercises 3 and 4, determine whether the graph represents a function. Explain. Find the domain and range for each relation.



Function? _____

Domain: _____

Range: _____



Function? _____

Domain: _____

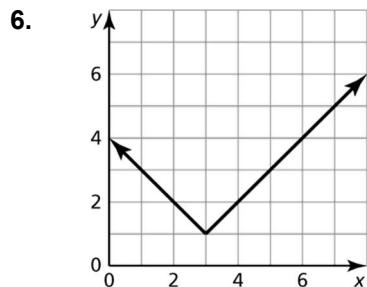
Range: _____

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

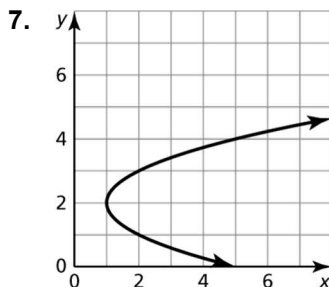
a. Identify the independent and dependent variables.

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

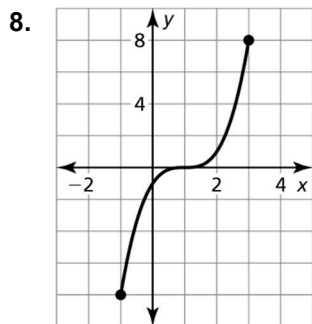
In Exercises 6 – 9, determine whether the graph represents a function. Explain.



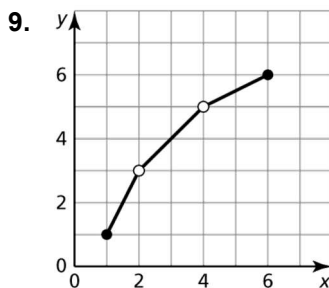
Function? _____



Function? _____



Function? _____



Function? _____

10. 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. Identify the independent and dependent variables.

b. If you buy 4 food raffle tickets, how many book raffle tickets will you need to buy?