Name_____ Date _____

3.1 Practice B

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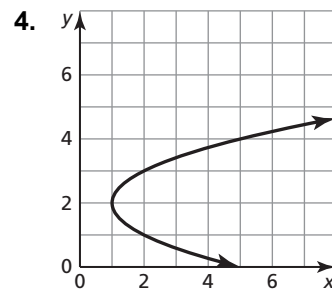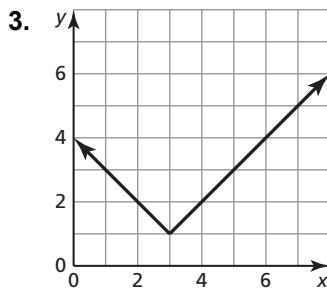
1.

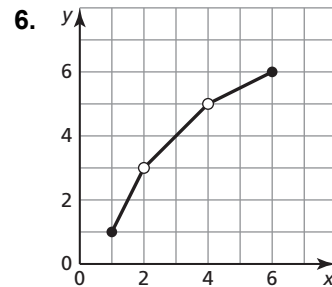| Input, x	0	1	3	2	1
Output, y	1	5	10	15	20

2.

Input, x	0	1	2	3	4
Output, y	-14	-7	0	7	14

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

3.

4.

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

5.

6.
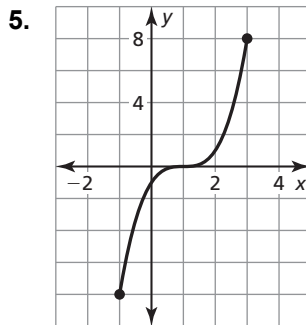
7. The function $2x + 1.5y = 18$ represents the number of book raffle tickets x and food raffle tickets y you buy at a club event.

   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.

In Exercises 8–10, find the domain and range of the function.

   8. $y = |x| + 2$ **9.** $y = -|x| + 1$ **10.** $y = -|x| - 3$