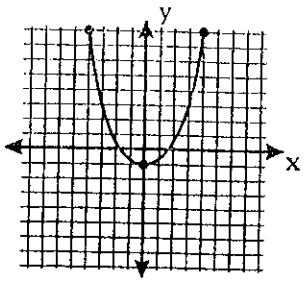
Name _____ Period ____

Domain and Range

Find the domain and range from the graph.
Each box on the graph equals 1 unit.

Example:

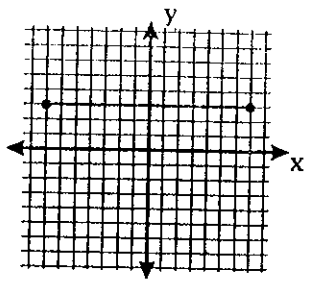


[-4,4]

Domain: $-4 \le x \le 4$
Range: $-1 \le y \le 9$

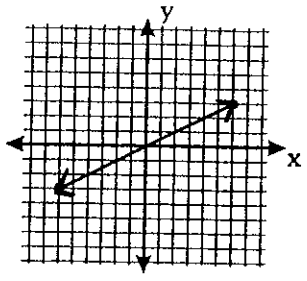
[-1,9]

1.



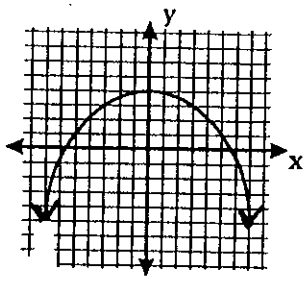
Domain:
Range:

2.



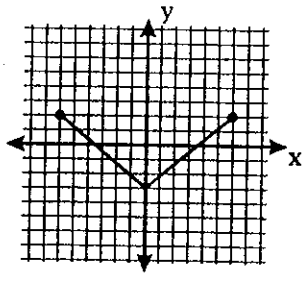
Domain:
Range:

3.



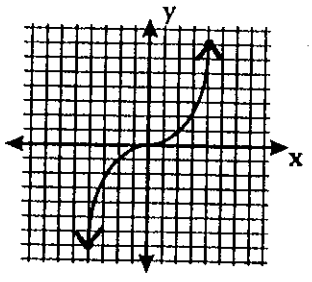
Domain:
Range:

4.



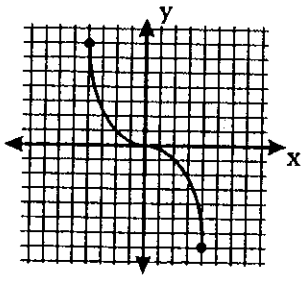
Domain:
Range:

5.



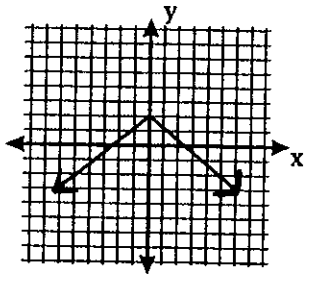
Domain:
Range:

6.



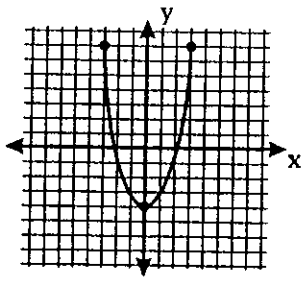
Domain:
Range:

7.



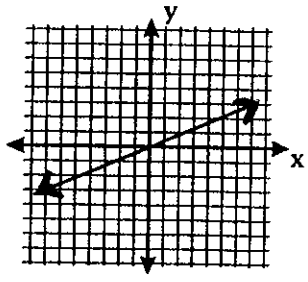
Domain:
Range:

8.



Domain:
Range:

9.



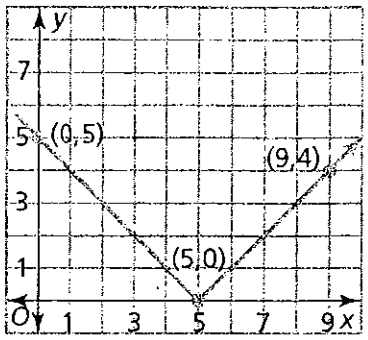
Domain:
Range:

Practice

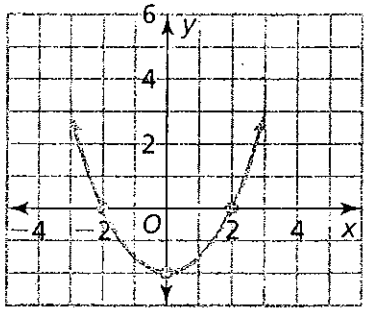
In Exercises 1–3, select the best answer choice.

1 Which graph does not represent a function?

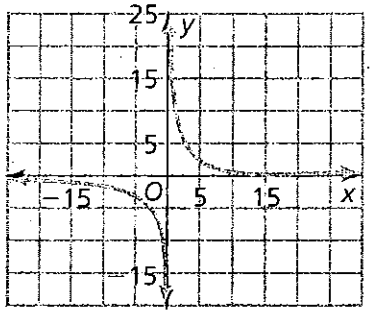
A.



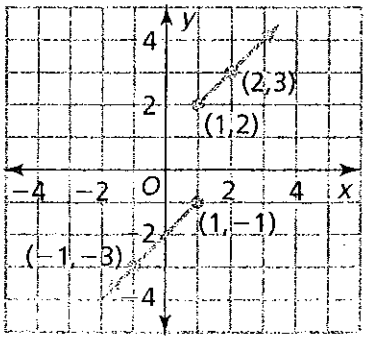
B.



C.



D.



2 Which relation is *not* a function?

A. $(-2, 2), (0, -2), (2, 2)$

B. $(-2, 2), (0, -2), (0, -4)$

C. $(-2, 5), (0, 1), (2, 0)$

D. $(-2, 2), (0, 2), (1, 2)$

3 Which equation does *not* represent a function?

A. $y = \sqrt{x} + 1$ **C.** $y = x^2 - 5$

B. $y = x^4$ **D.** $y = \frac{x^3}{6}$

In Exercises 4–7, state the domain and range.

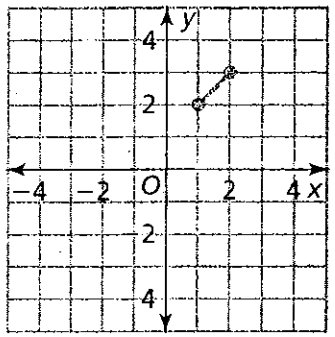
4 $(2, 0), (3, 0), (4, 0), (5, 0)$

5

x	2	3	4	5
y	1.5	3.5	5.5	7.5

6 $(a, b), (c, d), (e, f), (g, h)$

7

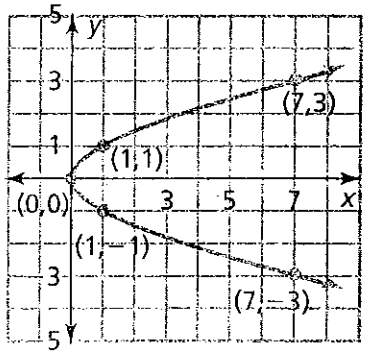


In Exercises 8–11, determine whether each is a function. Clearly explain why or why not.

8 $(n, 1), (n, 2), (n, 3), (n, 4), (n, 5)$

9 $(1, b), (2, b), (3, b), (4, b)$

10



11 A used-car salesperson earns a base salary plus 10% of the price of each car she sells.

Part A Explain whether this relation is a function.

Part B If her base salary is \$500 per week, describe the domain and the range.