

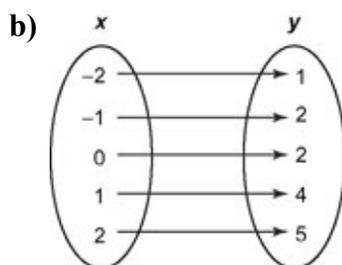
Section 1.1 Identify Functions

1. Determine if each relation is a function.

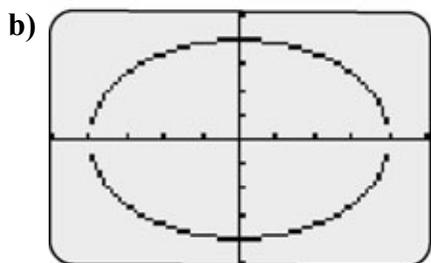
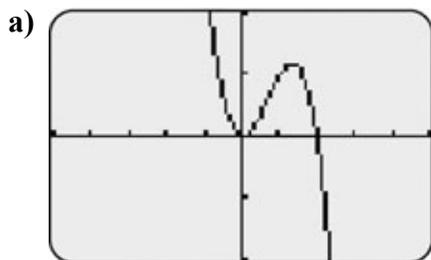
If it is not a function, explain why.

a)

x	y
-2	1
-1	2
-1	3
1	4
2	5



2. Determine if each relation is a function. If it is not a function, explain why.



3. A relation can be expressed as set of ordered pairs. Determine if each set of ordered pairs is a function. How do you know?

- a) $\{(-1, 1), (-2, 4), (-3, 9), (-4, 16)\}$
 b) $\{(-1, 0), (-1, -1), (-2, 0), (-2, -1)\}$
 c) $\{(3, 1), (4, 1), (5, 1), (6, 1)\}$

4. Refer to part c) of question 3.

- a) Plot the points on a coordinate grid.
 b) Explain how plotting the points helps determine if the relation is a function.

5. Is the relation $2x + 4y = 6$ a function? Give reasons for your answer.

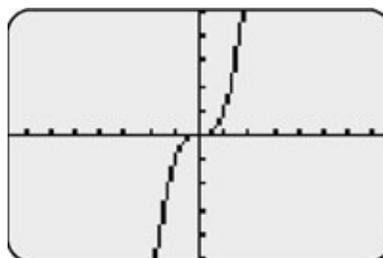
6. Evaluate, given $f(x) = 3x + 9$.

- a) $f(-2)$
 b) $f(0)$
 c) $f\left(\frac{1}{3}\right)$

7. Evaluate, given $g(x) = -x^2 + 2x - 2$.

- a) $g(0)$
 b) $g(-2)$
 c) $g(2.2)$

8. The graph represents a function $f(x)$.



Use the graph to evaluate.

- a) $f(-1)$
 b) $f(0)$
 c) $f(1)$