

Number:

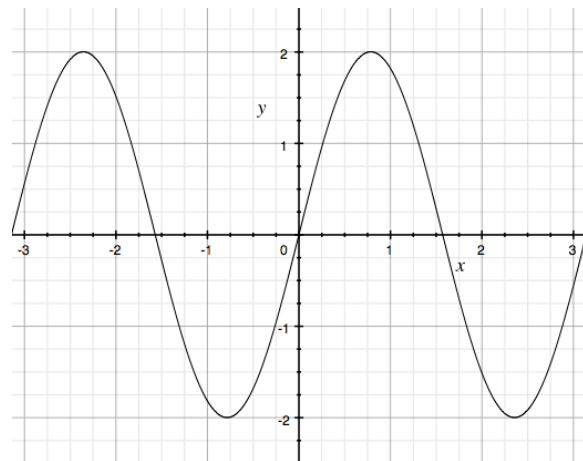
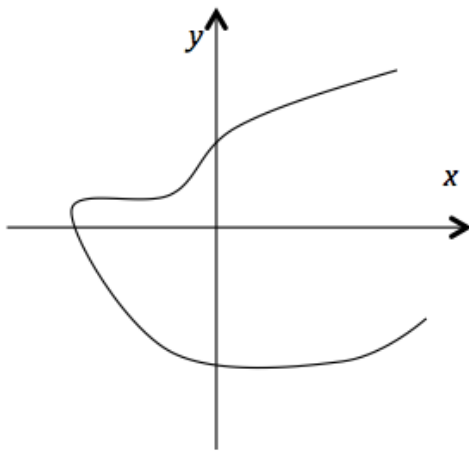
Textbook Section:

Title:

Def: A function is

OR

Vertical line test:



An equation defines y as a function of x if we can solve for y by

Determine if the equation defines y as a function of x .

1. $y = 2x + 3$

2. $x^2 - y = 4$

3. $y^2 - x = 4$

4. $xy = 3$

5. $|y| = x$

6. $2x + y^3 = 7$

Function notation:

$$f(x) = 2x + 3$$

Finding function values:

7. Let $f(x) = x^2 + 7$. Evaluate the following.

a) $f(3)$

b) $f(-4)$

c) $f(2a)$

d) $f(x+h)$

Find the domain of each function.

8. $f(x) = 2x + 3$

9. $g(x) = \sqrt{x-1}$

10. $h(x) = \frac{2x+1}{x^2-x-6}$

11. Find the range of f and g above.