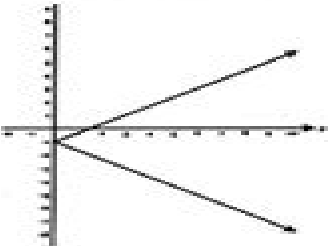
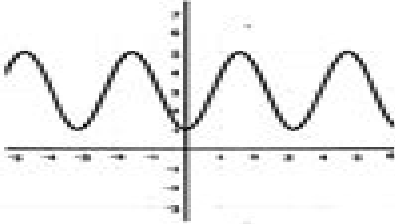


Unit 1 Day 03 – Review of Functions, Function Notation, and Characteristics

Determine whether each of the following is a function. Explain using the definition of a function.

1. 

This graph is not a function because it fails the vertical line test.

2. 

This graph is a function because it passes the vertical line test.

3. 

| x | y  |
|---|----|
| 0 | 14 |
| 1 | 11 |
| 2 | 7  |
| 3 | 6  |
| 3 | 5  |
| 4 | 3  |
| 5 | 2  |
| 6 | 1  |

This table is not a function because 3 has two outputs

Evaluate each of the following.

4. Given  $f(x) = x - 6$ ,  
Find  $f(3)$ .

$$3 - 6 = \textcircled{-3}$$

5. Given  $f(x) = -x^2 - 6x - 6$ ,  
Find  $f(-2)$ .

$$-(-2)^2 - 6(-2) - 6 = \textcircled{10}$$

6. Given  $-3|x + 3| + 7$ ,  
Find  $f(-7)$ .

$$-3|-7 + 3| + 7 = -3(4) + 7 = \textcircled{-5}$$

7. Given the table

| x  | g(x) |
|----|------|
| -5 | -10  |
| 6  | 3    |
| -6 | 4    |
| -1 | 3    |

Find the following:

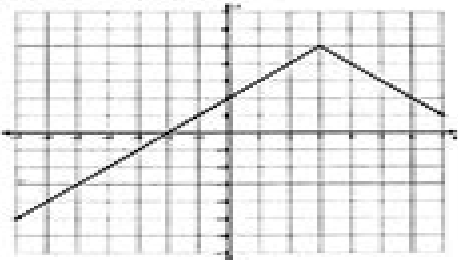
$$g(-5) = -10$$

$$g(-1) = 3$$

When  $g(x) = 4, x = ?$  -6

When  $g(x) = 3, x = ?$  6 and -1

8. Given the graph



Find the following:

$$f(-4) = -2$$

$$f(5) = 3$$

When  $f(x) = 4, x = ?$  2

When  $f(x) = -1, x = ?$  -3

# Advanced Functions And Modeling Answer Key

**Ying Liu**



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challenges opportunities and research findings We hope that readers find the book interesting exciting and inspiring it provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research

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