Section %(Functions

Objective: In this lesson you learned how to evaluate functions and find their domains.

 Important Vocabulary
 Define each term or concept.

 Function
 Important

 Domain
 Important

 Range
 Important

 Independent variable
 Important

 Dependent variable
 Important

I. Introduction to Functions and Function Notation (Pages 57–5;)

A rule of correspondence that pairs items from one set with items from a different set is a ______.

In functions that can be represented by ordered pairs, the first coordinate in each ordered pair is the _____ and the second coordinate is the _____.

Some characteristics of a function from set A to set B are . . .

- 1)
- 2)

3)

Some common ways to represent functions are ...

- 1)
- 2)
- 3)
- 4)

What you should learn How to determine whether relations between two variables are functions, and use function notation.

Course Number

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To determine whether a relation is a function, ...

If any input value of a relation is matched with two or more output values, . . .

Example : Decide whether the table represents y as a function of x.

x	3	1	0	2	4
У	5	12	5	3	14

The symbol ______ is **function notation** for the value of f at x or f of x, used to describe y as a function of x. In this case, ______ is the name of the function and ______ is the value of the function at x.

Example: If $f(w) = 4w^3 - 5w^2 - 7w + 13$, describe how to find f(-2).

A piecewise-defined function is . . .

II. The Domain of a Function (Page 62)

The **implied domain** of a function defined by an algebraic expression is . . .

For example, the implied domain of the function $f(x) = \sqrt{5x-8}$ is . . . notation and evaluate functions

What you should learn How to use function

What you should learn How to find the domains of functions Section F.I Functions

III. Applications (Pages 41 – 42)

A difference quotient is defined as . . .

Describe a real-life situation which can be represented by a function.

What you should learn How to use functions to model and solve real-life problems

Additional notes

