

STUDY GUIDE

Unit 1 Lesson 7 - Study Guide

Name: _____

Representing Functions

Date: _____

Lesson Objectives:

- Understand what a function is, and how it relates to relations.
- Determine whether a given relation is a function.
- Use function notation to evaluate expressions.
- Interpret graphs to identify functional relationships.

Key Concept

A **function** is a special type of relation in which each element of the domain is paired with exactly one element in the range.

- If a relation repeats any input value (x-value) with more than one output (y-value), it is NOT a function.
- A relation can be a set of ordered pairs, a table, a graph, or a mapping diagram.

Example 1: Determine whether the relation $\{(5, -15), (6, 1), (7, -25), (8, 1)\}$ is a function. Explain.

Since each element of the domain is paired with exactly one element of the range, this relation is a **function**.

Example 2: Determine whether $3x - y + 6 = 0$ is a function.

Since this equation is in the form $Ax + By + C = 0$, the graph of the equation will be a line, as shown at the right.

If you draw a vertical line through each value of x , the vertical line passes through just one point of the graph. Thus, the line represents a function.



Key Takeaways

- Functions assign one output to each input.
- Use the vertical line test for graphs.
- Use function notation to evaluate expressions quickly.
- Know how to evaluate $f(x)$ for any value of x .

Study Guide And Intervention Representing Functions

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
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