Section 2.1: What is a Function

Section 2.1: Understanding Functions

Objective 1:
Learn to identify functions and understand their importance in various contexts.

Example 1: Identifying Functions in Real-Life Situations

You are organizing a small event and need to assign each guest to a specific table. Below is a list of guests and the tables they are assigned to:

Guest Table Number

Guest	Table Number
Alice	1
Bob	2
Carol	2
Dave	3

Questions:

1. **Is the table number a function of the guest?**

2. **Is the guest a function of the table number?**

Example 2: Functions in Mathematics

Consider the following set of ordered pairs:

$$S = \{(1,4), (2,5), (3,6), (4,7), (5,8)\}$$

Questions:

1. **Does this set represent a function?**