O N E

FUNCTIONS, LIMITS, AND CONTINUITY

1.1 FUNCTIONS AND THEIR GRAPHS

Real Number can be expressed as a decimal.
A *rational number* is a repeating or terminating decimal.

Inequalities $a < b$ (a is less than b) if $b - a$ is positive;
$a > b$ (a is greater than b) if $a - b$ is positive.
$a \leq b$ (a is less than or equal to b) if $a < b$ or $a = b$; $a \geq b$ if $a > b$ or $a = b$.

Intervals $(a, b) = \{x \mid a < x < b\}$ $\qquad$ $[a, b] = \{x \mid a \leq x \leq b\}$ $\qquad$ $(a, b] = \{x \mid a < x \leq b\}$
$[a, b) = \{x \mid a \leq x < b\}$ $\qquad$ $(a, +\infty) = \{x \mid x > a\}$ $\qquad$ $(-\infty, b) = \{x \mid x < b\}$
$[a, -\infty) = \{x \mid x \geq a\}$ $\qquad$ $(-\infty, b] = \{x \mid x \leq b\}$ $\qquad$ $(-\infty, +\infty) = \mathbb{R}$

Absolute Value $|a| = \begin{cases} a & \text{if } a \geq 0 \\ -a & \text{if } a < 0 \end{cases}$, $|a - b| = \begin{cases} a - b & \text{if } a \geq b \\ b - a & \text{if } a < b \end{cases}$

Sign, Step Function $\operatorname{sgn} x = \begin{cases} -1 & \text{if } x < 0 \\ 0 & \text{if } x = 0 \\ 1 & \text{if } x > 0 \end{cases}$, $U(x) = \begin{cases} 0 & \text{if } x < 0 \\ 1 & \text{if } x \geq 0 \end{cases}$

Triangle Inequality $|a + b| \leq |a| + |b|$

Graphing *Sketch* mean by hand; *plot* mean using a graphics calculator. Our plots label the axes.

1.1.1 Definition A *function* is a set of ordered pairs of numbers (x, y) in which no two distinct ordered pairs have the same first number. The set of all admissible values of x is called the *domain* of the function and the set of resulting values of y is called the *range* of the function. The numbers x and y are *variables*. A function like $|x|$ is said to be defined in pieces.

1.1.2 Definition If f is a function, then the *graph* of f is the set of all points (x, y) in $\mathbb{R}^2$ for which (x, y) is an ordered pair in f, that is, the graph of the equation $y = f(x)$.

A function determines a correspondence between the domain and the range. For each number x in the domain there corresponds one and only one number y in the range. When addition, subtraction, and multiplication are the only operations required to calculate y, as in a polynomial function, the domain is the set of all real numbers. If division is required to calculate y, then the domain does not contain any replacement for x that results in division by zero. Thus, for a *rational function*, which is the quotient of two polynomials, the domain is the set of all real numbers, except for those replacements of x that result in a value of zero for the denominator of the fraction. Because the range of a function is a set of real numbers, and the square root of a negative number is not real, if the formula that defines a function contains the square root sign, then x must satisfy the inequality obtained by making the expression under the radical sign greater than or equal to zero.

Greatest Integer $[x] = n$ if $n \leq x < n + 1$ where n is an integer. Note: $-[-n] = n + 1$ if $n < x \leq n + 1$.

Calculus Leithold Solutions Manual

Albert A Gayle

Calculus Leithold Solutions Manual:

This book delves into Calculus Leithold Solutions Manual. Calculus Leithold Solutions Manual is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Calculus Leithold Solutions Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

   - Chapter 1: Introduction to Calculus Leithold Solutions Manual
   - Chapter 2: Essential Elements of Calculus Leithold Solutions Manual
   - Chapter 3: Calculus Leithold Solutions Manual in Everyday Life
   - Chapter 4: Calculus Leithold Solutions Manual in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Calculus Leithold Solutions Manual. The first chapter will explore what Calculus Leithold Solutions Manual is, why Calculus Leithold Solutions Manual is vital, and how to effectively learn about Calculus Leithold Solutions Manual.
3. In chapter 2, this book will delve into the foundational concepts of Calculus Leithold Solutions Manual. The second chapter will elucidate the essential principles that must be understood to grasp Calculus Leithold Solutions Manual in its entirety.
4. In chapter 3, this book will examine the practical applications of Calculus Leithold Solutions Manual in daily life. This chapter will showcase real-world examples of how Calculus Leithold Solutions Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Calculus Leithold Solutions Manual in specific contexts. This chapter will explore how Calculus Leithold Solutions Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Calculus Leithold Solutions Manual. The final chapter will summarize the key points that have been discussed throughout the book.
   This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Calculus Leithold Solutions Manual.

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Calculus Leithold Solutions Manual Introduction

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