

Section 8.0 – Exploring the Logarithmic Function

Logarithmic Function:

The inverse of the exponential function $y = a^x$ is the function with exponential equation $x = a^y$. We write y as a function of x using the logarithmic form of this equation, $y = \log_a(x)$. As with the exponential function, $a > 0$, and $a \neq 1$.

The general shape of the graph of the logarithmic function depends on the value of the base.

When $a > 1$, the exponential function is an increasing function, and the logarithmic function is also an increasing function.



When $0 < a < 1$, the exponential function is a decreasing function and the logarithmic function is also a decreasing function.

The y -axis is the vertical asymptote for the logarithmic function. The x -axis is the horizontal asymptote for the exponential function.

The x -intercept of the logarithmic function is 1, while the y -intercept of the exponential function is 1.



The domain of the logarithmic function is $D: \{x \in \mathbb{R} \mid x > 0\}$, since the range of the exponential function is $R: \{y \in \mathbb{R} \mid y > 0\}$

The range of the logarithmic function is $R: \{y \in \mathbb{R}\}$, since the domain of the exponential function is $D: \{x \in \mathbb{R}\}$.

Grade 12 Advance Function Solution Manual

CO Houle



Grade 12 Advance Function Solution Manual:

This book delves into Grade 12 Advance Function Solution Manual. Grade 12 Advance Function Solution Manual is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Grade 12 Advance Function Solution Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Grade 12 Advance Function Solution Manual
 - Chapter 2: Essential Elements of Grade 12 Advance Function Solution Manual
 - Chapter 3: Grade 12 Advance Function Solution Manual in Everyday Life
 - Chapter 4: Grade 12 Advance Function Solution Manual in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Grade 12 Advance Function Solution Manual. The first chapter will explore what Grade 12 Advance Function Solution Manual is, why Grade 12 Advance Function Solution Manual is vital, and how to effectively learn about Grade 12 Advance Function Solution Manual.
 3. In chapter 2, this book will delve into the foundational concepts of Grade 12 Advance Function Solution Manual. The second chapter will elucidate the essential principles that must be understood to grasp Grade 12 Advance Function Solution Manual in its entirety.
 4. In chapter 3, the author will examine the practical applications of Grade 12 Advance Function Solution Manual in daily life. This chapter will showcase real-world examples of how Grade 12 Advance Function Solution Manual can be effectively utilized in everyday scenarios.
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 6. In chapter 5, this book will draw a conclusion about Grade 12 Advance Function Solution Manual. This chapter will summarize the key points that have been discussed throughout the book.
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