

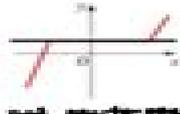
Math 110 Guided Lecture Sheet Sect 2.8

A function with a domain A is called a **one-to-one function** if no two elements of A have the same image, that is,

$f(x_1) \neq f(x_2)$ whenever $x_1 \neq x_2$, equivalently, if $f(x_1) = f(x_2)$, then $x_1 = x_2$.

A test to see if a function is one-to-one is the **Horizontal Line Test**. If a horizontal line intersects the graph more than once, the function is not one-to-one.

1. Determine which of the following are one-to-one functions.



Now, why do we care if a function is one-to-one? It allows the function to have an inverse.

Let f be a one-to-one function with domain A and range B . Then its inverse function f^{-1} has domain B and range A , and is defined by:

$f^{-1}(y) = x$ if and only if $f(x) = y$ for any y in B .

In other words, inverse functions switch x and y values.

2. Use the graph below to answer the following.



$$f^{-1}(7) = 5$$

$$f(5) = 7$$

$$f^{-1}(2) = 4$$

$$f(4) = 2$$

Notice in the last problem, when we plug the inverse function into the original function, they essentially "undo" each other, and we get back to what we started with, in this case, it was a $y = 2$.

Inverse Function Property Let f be a one-to-one function with domain A and range B . The inverse function f^{-1} satisfies the following properties:

$f^{-1}(f(x)) = x$ for every x in A and $f(f^{-1}(x)) = x$ for every x in B .

Any f^{-1} satisfying these equations is the inverse of f .

3. Use the Inverse Function Property to show that the following pairs of functions are inverses.

$$f(x) = \frac{1}{x}$$

$$f(x) = x^2 + 1$$

$$g(x) = \frac{1}{x}$$

$$g(x) = (x - 1)^{\frac{1}{2}}$$

$$\begin{aligned} f^{-1}(x) &\Rightarrow y = \frac{1}{x} \\ x - 1 &= \frac{1}{y} - 1 \\ xy &= 1 \\ y &= \frac{1}{x} \end{aligned}$$

$$\begin{aligned} f^{-1}(x) &\Rightarrow y = x^2 + 1 \\ x &= y^2 + 1 \\ x - 1 &= y^2 \\ \sqrt{x-1} &= y \\ (x-1)^{\frac{1}{2}} &= y \end{aligned}$$

Lecture Math Guide

Rosina Ehmann



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Table of Contents Lecture Math Guide

1. Understanding the eBook Lecture Math Guide
 - The Rise of Digital Reading Lecture Math Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Lecture Math Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lecture Math Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lecture Math Guide
 - Personalized Recommendations
 - Lecture Math Guide User Reviews and Ratings
 - Lecture Math Guide and Bestseller Lists
5. Accessing Lecture Math Guide Free and Paid eBooks
 - Lecture Math Guide Public Domain eBooks
 - Lecture Math Guide eBook Subscription Services
 - Lecture Math Guide Budget-Friendly Options
6. Navigating Lecture Math Guide eBook Formats

- ePub, PDF, MOBI, and More
- Lecture Math Guide Compatibility with Devices
- Lecture Math Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lecture Math Guide
 - Highlighting and Note-Taking Lecture Math Guide
 - Interactive Elements Lecture Math Guide
- 8. Staying Engaged with Lecture Math Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lecture Math Guide
- 9. Balancing eBooks and Physical Books Lecture Math Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lecture Math Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lecture Math Guide
 - Setting Reading Goals Lecture Math Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lecture Math Guide
 - Fact-Checking eBook Content of Lecture Math Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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