

# The Book of Math (Notes)

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## Forward and Disclaimer

These are math notes made by a student (with a physics major and math minor) based off text books. It may contain misconceptions and misinterpretations, thus should not be viewed in the same light of a text book. Use at your own risk and mental sanity.

## Symbols

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# Part I

## Logic



# Part II

## Real Analysis





# Part III

## Complex Analysis



# Chapter 1

## Conformal Mapping



# **Part IV**

## **Differential Equations**



## Part V

# Partial Differential Equations





# Part VI

## Linear Algebra



## Chapter 2

# Markov Chains



# Part VII

## Tensors



## Part VIII

# Riemann Geometry





# Part IX

## Group Theory



# **Part X**

## **Galois Theory**

