A Bibliography for Undergraduate Mathematics

Introduction

This bibliography provides a suggested reading list for undergraduate mathematics students. The books listed cover foundational areas and are a great starting point.

Calculus

- **Calculus** by James Stewart
- **Calculus** by George B. Thomas and Maurice D. Weir

Linear Algebra

- **Introduction to Linear Algebra** by Gilbert Strang
- **Linear Algebra** by Stephen H. Friedberg, Arnold J. Insel, and Lawrence E. Spence

Abstract Algebra

- **A First Course in Abstract Algebra** by John B. Fraleigh
- **Abstract Algebra** by David S. Dummit and Richard M. Foote

Discrete Mathematics

- **Discrete Mathematics** by Kenneth H. Rosen
- **Discrete Mathematics and Its Applications** by Kenneth H. Rosen

Analysis

- **Principles of Mathematical Analysis** by Walter Rudin
- **Introduction to Real Analysis** by Robert G. Bartle and Donald R. Sherbert

Differential Equations

- **Elementary Differential Equations** by William E. Boyce and Richard C. DiPrima
- **Differential Equations: A Modern Introduction** by Earl D. Rainville

Geometry

- **Euclidean Geometry** by Harold R. Jacobs
- **Geometry** by John Casey

Note: This is just a starting point. As you progress, you may want to explore more specialized texts in areas that interest you. Additionally, online resources like Khan Academy and MIT OpenCourseWare can provide valuable supplementary materials.