

Intermediate Algebra

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Intermediate Algebra

This **Intermediate Algebra** textbook is designed as a chronological course to guide you through High School Algebra (sometimes called Algebra II in some locations). This textbook assumes you have completed [Arithmetic](#) and [Algebra](#). Although not required, Intermediate Algebra is normally taken the year after Geometry.

Algebra I

Review of previous concepts

- [Variables](#)
- [Real Numbers](#)
- ◻
- [Exponents](#)

First Degree Equations and Inequalities

- [Expressions](#)
- ◻
- [Solving Equations](#)
- ◻
- [Solving Word Problems](#)

- ◻
- Absolute Value Equations
- ◻
- Solving Inequalities
- ◻
- Compound & Absolute Value Inequalities
- ◻
- Chapter Test
- ◻
- Chapter Test Answers
- ◻

Linear Functions

- Functions
- Linear Equations
- ◻
- The Coordinate (Cartesian) Plane
- Slope
- ◻
- Writing Linear Equations
- ◻
- (Optional) Scatter Plots
- ◻
- Special Functions
- ◻
- Graphing Inequalities
- ◻

Systems of Equations

- Solving Systems of Equations By Graphing
 - ▣
- Algebraically Solving Systems of Equations
 - ▣
- Systems of Inequalities
 - ▣
- Solving Systems of Equations In Three Variables
 - ▣

Matrices

Polynomials

Polynomials

- Binomial Theorem
- Factoring Polynomials

Algebra II

Complex Numbers

Quadratic Functions and Inequalities

Polynomial Functions

Conic Sections

Conic Sections

Rational Expressions and Equations

This is a hyperbola with center at $(0,0)$ and asymptotes are



and



. The transverse axis is



.

Exponential and Logarithmic Relations

- Exponential Functions
- [Logarithms](#)

Sequences and Series

Probability and Statistics

Authors

- [Jaden Mathos](#)

