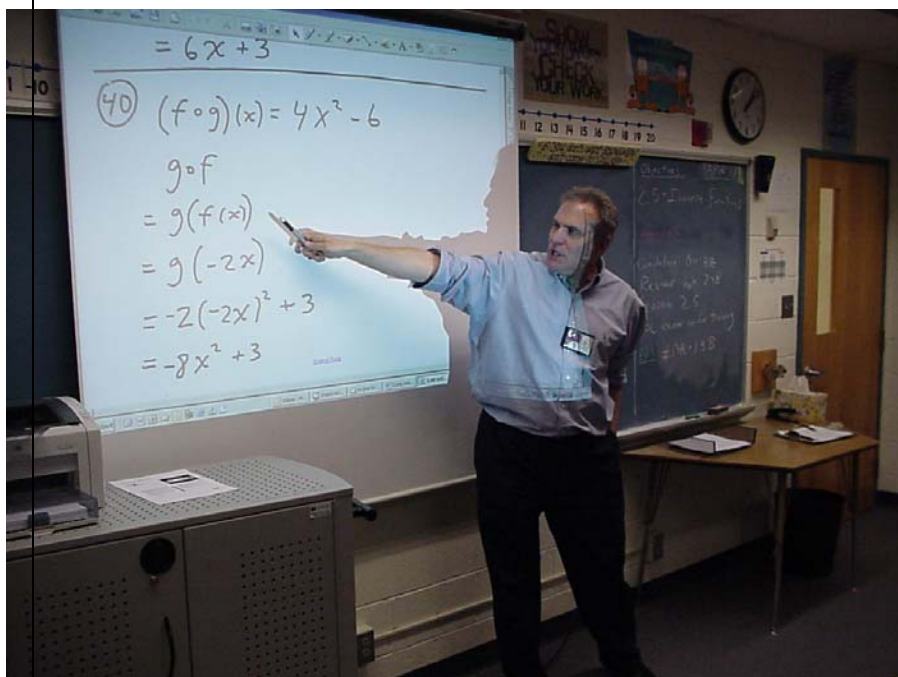


# Pre IB Algebra 2



## Student Testimonials

[Dylan](#)

[Kristen](#)

## Essential Concepts

- All concepts listed as part of Algebra II
- The depth and level of understanding expected in Algebra II honors is beyond the scope of Algebra II
- Students are not only expected to master algebraic mechanics but to understand the underlying theory and to apply the concepts to real-world situations in a meaningful way.
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## Program of Studies Key Concepts

- All concepts listed for Algebra II **plus additional topics from among the following:**
- Exponential and Logarithmic Functions
- Right Triangle Trigonometry
- Quadratic inequalities
- Compositions of multiple functions; verifying two functions are inverses using compositions
- Rewrite equations of conic sections from standard form to (h,k) form
- Finding determinants and inverses of 3x3 matrices by hand
- Identifying key features (zeros, intercepts, increasing and decreasing intervals, concavity, end behavior, maxima and minima) given a graph of a function
- Divide complex numbers using complex conjugates
- Graph points and equations in three dimensions

## Homework Expectations

- 100 minutes per 90 minute class

## Basic Supplies

- TI-83 or TI-84 Calculator
- Pencils, Erasers, Paper
- Ruler, Graph Paper

## Prerequisite Courses

- Honors Algebra 1
- Pre-IB Geometry or recommendation of Algebra 1 teacher

**The Pre-IB Algebra 2 course is not required for an IB diploma.**