



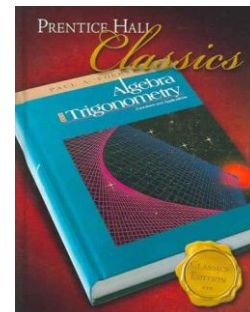
# PIONEERS Co-Op

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## Overview of Precalculus: Advanced Algebra with Trig. (Grades 10-12)



**Tutor:** Dr. Frederick Trexler  
517-581-1330 (cell)  
fred-val@att.net

### Required Text:

- ***Algebra and Trigonometry: Functions and Applications*** by Paul A. Foerster by Addison-Wesley Publishing (ISBN 978-0201861013) or Prentice Hall Classics (ISBN 978- 0131657106)

Available for a rental fee of \$30.00 per year from Pioneers. Replacement cost is \$60-\$80.

*Note: Same textbook used in Algebra 2, the previous math course.*

### Recommended Supplement (Optional):

- ***Home Study Companion: Algebra 2/Trig***  
Available from MathWithoutBorders.com \$129 as a digital download

This material is based upon the same textbook used in class. It contains daily lectures and also works out many of the homework answers. It will also work for Algebra 2, the previous math course.

### Prerequisite: Algebra 2

**Supplies:** Scientific calculator (eg. TI-30Xa); access to Excel for problem solving and graphing

### Student Evaluation:

	<u>% of semester grade</u>
Homework	30%
Class Preparedness	5%
Quizzes and Tests	40%
Semester Exam	25%

#### Grading Scale

90-100%	=A
80-89%	=B
70-79%	=C
60-69%	=D
Less than 60%	=F



**Course Description:** This is a high school level class with quizzes and a semester exam. Expect daily work to take one to one-and-a-half hours per day. Some class topics will include:

#### Review of

- Functions and Relations
- Systems of Linear Equations and Inequalities
- Quadratic Functions and Complex Numbers
- Exponential and Logarithmic Functions
- Rational/Irrational Algebraic Functions

#### New concepts

- Preview of Calculus
- Learn to use Excel to solve problems
- Quadratic Relations and Systems
- Higher Degree Functions and Complex Numbers
- Sequences and Series
- Probability and Data Analysis
- Trigonometric Functions and Triangle Problems