

Pre-Calculus (Advanced Math)

Tuesdays 11:05-12:30

Grade Level: 10 - 12

Prerequisite: Algebra 2

Teacher: Geoff Sawyer

Student Fee: \$210

Class Size: 6 to 12

Course Description:

Course will cover mathematical concepts beyond Algebra II so students will be ready for Calculus. Topics will include exponentials, logarithms, complex numbers, equations and inequalities, functions, lines, polynomials, geometry, basic matrix operations, trigonometry, word problems, basics of statistics and probability, and proofs.

Required:

- *Advanced Mathematics: An Incremental Approach*, 2nd Edition, by John H. Saxon, along with its *Solutions Manual*. Parents must also acquire the Test Forms and Home Study Packet. Other useful materials are available but aren't required, e.g., the DVE CDs.
- Attendance at classes

Expected of Students:

- *BEFORE school begins* - Review Lessons 1-9 at least two weeks before the first class, since these should be simply review. This will also allow familiarization with the flow of the book. The first class will begin with lesson 10.
- Complete 4 lessons (and odd-numbered problems) and one test each week (suggest lessons Mon-Thurs and test Fri); the test will cover the previous week's material, while classes will cover upcoming material (i.e., that Tuesday through the following Monday).
- Home study is a must! For most students, 5 hours of study per week should be sufficient.
- Turn in quizzes and tests promptly (taken at home, but turned in to be graded)
- Participate in class

Expected of Parents:

- Ensure that your students are doing the lessons.
- Administer and initially grade tests, then turn in completed tests.

Grading:

Grading will be based on weekly test results. There will be no mid-term or final exam, and up to 4 of the lowest grade tests will be dropped.