

AP Pre-Calculus

Teacher: Mrs. Dennis

School Phone: 334-387-1910

Planning Block: 4th

Email Address: jerri.dennis@acboe.net *Please make sure to set up your parent square account.

Web Page www.marburyhighschool.org (Look at tabs along top, click on Faculty & Staff,—Jerri Dennis)

Your power school access is a great way to keep up with your grades!!

Course Description:

AP Pre-Calculus combines the previous study of algebra, geometry and mathematical functions into a preparatory course for calculus. It is considered to be a prerequisite for success in calculus and college mathematics.

Algebraic, graphical, numerical, and verbal analyses are incorporated during investigations of the Pre-Calculus content standards. Parametric equations, polar relations, vector operations, conic sections, and limits are introduced. Content for this course also includes an expanded study of polynomial and rational functions, trigonometric functions, and logarithmic and exponential functions. Application-based problem solving is an integral part of the course. The AP Pre-Calculus course is the prerequisite course for enrollment in AP Calculus AB. AP courses and exams emphasize research-based curricula aligned with higher education expectations.

Prerequisite: Algebra 2 with Trigonometry

Resources: Blitzer PRECALCULUS. Pearson MyLab, Math Medic, AP Classroom

Course Outline

Tentative progression of material to be covered:

Unit 1- Polynomials	Unit 7 - Polar and Parametric Equations/Functions
Unit 2 – Rational Functions	Unit 8 – Vectors
Unit 3 – Exponential Functions	Unit 9 – Conic Sections
Unit 4 - Logarithmic Functions	Unit 10 – Systems of Equations and Matrices
Unit 5 - Trigonometric Graphs	Unit 11 – Sequences, Series, and Induction
Unit 6 - Trigonometric Equations	Unit 12 –Introduction to Calculus

*Note units 7-12 will be covered as time permits

SUGGESTED SUPPLIES

1-1 inch 3 ring binder, Loose-leaf paper, Graph Paper, Mechanical pencils or #2 pencils, Extra lead or handheld sharpener with cover, Extra pencil erasers

Scientific (*TI-30X IIS) / Graphing Calculator (*TI 84 Plus Series)

***These are the calculators we will use when necessary.**

OPTIONAL DONATIONS

Paper towels/Kleenex, Hand sanitizer/Clorox wipes, Dry Erase Markers , Extra copy paper/color paper, Xerox WorkCentre 6515 Ink **ALL classroom donations will be greatly appreciated!!!!**

Grading Policy

Major Grades- 65%

Minor Grades- 35%

Homework will be part of the minor grade category. Several homework assignments will be checked and averaged together to make up the homework grade.

ATTENDANCE/MAKE-UP POLICY

Attendance is very important to success in the classroom. If you have an **excused** absence on "Quiz or Test Day" you will be allowed to take a make-up test. **It is your responsibility** to arrange a time to take the make-up test (preferably within two days of your absence). Communication is vital; please make it a priority to get missed work as soon as possible. Be proactive. **Do not wait for the next class period**, see me at break or between classes ASAP. Exceptions will be made for extended absences. Missed work must be made up in accordance with the Autauga County Board of Education policy.

DISCIPLINE PLAN

You are expected to be well-mannered, cooperative, and respectful. You should be in your assigned seat by the tardy bell. At the start of class you should settle down and begin work. If you are late to class without an excused pass you will be required to report to the office. Any behavior which prevents me from teaching or students from learning is unacceptable. I will follow the attendance and conduct guidelines of our school and the Autauga County Board of Education. My goal is to create an atmosphere conducive to learning. Good behavior will be rewarded.

CONSEQUENCES FOR BREAKING CLASSROOM RULES

FIRST OFFENSE---Warning and counsel with student

SECOND OFFENSE--- Parental contact (by note, phone, or in person)

THIRD OFFENSE--- Administrator contact to parent

FOURTH OFFENSE---Office referral

Severity Clause: If student's behavior is sufficiently severe, an office referral will be initiated immediately!!!

CLASSROOM RULES

- Be on time and prepared to learn every day.
- Keep all electronics put away, must be powered off and must be stored off person(in backpack).
- Be responsible for your own learning (If you miss something, find out what and make it up. If you don't understand, ask! If you need help, come to Bulldog.)
- Respect others and their property. (Speak kindly, be considerate, be helpful, don't bother others or their property including the teachers and the administration, trash goes in the trash cans.)
- Speak softly in the classroom. (Use regular speaking voice during class discussions, talk softly during group work)
- Raise you hand to request permission or to receive help.
- Do your best work at all times. **(Don't waste time, write neatly and show your work, use a pencil at all times, pay attention)**