PRE-CALCULUS

MR. BUTEYN

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**COURSE DESCRIPTION:** Precalculus is taught around the concept of “functions as a model of change” and is designed to prepare students for Calculus and college-level mathematics. It contains a review of algebraic and geometric concepts, while expanding these concepts to incorporate real-world problems to advance mathematical skills.

**MATERIALS:** A 3-ring binder, red pen, pencil (mechanical is preferred), and looseleaf paper are needed for class. A TI-83+ (or better) calculator is used throughout the class and is required.

**GRADING:** The standard 90/80/70 grading scale is used at BHS. Grades are computed in the following manner:

Binder = 10% Homework = 20% Quizzes = 25% Exams = 35 % Final = 10%.

**HOMEWORK:** Students will receive an assignment almost every day. Assignments will be graded in class the next day, but will be collected weekly and entered into the grade book. Please do your assignment on looseleaf paper in pencil.

Students may make corrections on all assignments. Because full credit is given for corrections, students must show all work on any problem that was initially marked incorrect. Corrections should be handed in when assignments are collected.

Late work is accepted for reduced credit up to one day after assignments were collected unless a student has been absent. An extension may be given if the makes the request no later than the day after the assignments are collected. Assignments handed in after that point will receive no credit.

**QUIZZES AND TESTS:** Quizzes and tests are designed to assess student knowledge and are not subject to correction for an improved grade. If a student is found talking or looking at another paper, that student will receive a zero and will not be allowed to make up the grade.

**NOTES/BINDERS**: Note sheets are handed out for each lesson and are filled out by the students in class. These sheets must be stored, in order, in a three-ring binder. These binders will be collected and graded at the end of each term for organization and completion. If you are absent, get the note sheets and fill them out using another student’s notes. Students must maintain the same binder for the semester—do not throw out the notes from the previous term. No photocopies are allowed.

**GENERAL OUTLINE OF COURSE** (including approximate time spent per chapter)**:**

**First Semester**

I. Linear Functions and Change (14 days)

II. Functions (12 days)

III. Quadratic Functions (10 days)

IV. Exponential Functions (12 days)

V. Logarithmic Functions (8 days)

VI. Transformations (12 days)

VII.Trigonometry (14 days)

**Second Semester**

VIII. Trigonometric Functions (10 days)

IX. Trigonometric Identities (8 days)

X. Compositions and Inverses (8 days)

XI. Polynomials and Rational Numbers (22 days)

XII. Systems and Linear Programming (16 days)

XIII. Probability (10 days)

XIV. Sequences (10 days)

**CLASS EXPECTATIONS:** Most rules are common sense and involve simply showing respect for fellow classmates, but here is the short list:

\*Be on time—detentions are given out after the second unexcused tardy.

\*While the lesson is being taught or if you are taking a quiz or a test, do not get out of your desk without permission.

\* If you have food or drink please take care of it quickly and quietly. Once the lesson starts the only thing left should be water. Pick up after yourself or you will lose the privilege completely.

\*MP3 players are allowed in class if they are used during work time only. If you use them during the lesson or a quiz or test, you will lose the privilege of using it and it will be taken from you.

\*Backpacks are not allowed.

\*Please keep cell phones put away unless you have permission to have them out.

\*At the end of the class period, I will dismiss you—not the bell. Do not pack up early or line up at the door near the end of class.

**RESPECT:**

* Uses respectful tone when speaking with adults and peers
* Actively listens while others are talking
* Refrains from using derogatory remarks when talking about other people
* Follows directions
* Does not interfere with others’ learning
* Demonstrates empathy toward others

**RESPONSIBILITY:**

* Completes and turns in assignments on time
* Follows through with assigned tasks in group work
* Arrives on time to class
* Arrives to class with needed material