

Advanced Math I and
Pre-AP Geometry

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Dear Parent or Guardian,

Welcome to the 2008-2009 school year. In many ways this year will be like no other. I look forward to a successful year of teaching advanced concepts in mathematics to your young ladies and gentlemen. The courses I am instructing this year are Advanced Math I and Pre-AP Geometry. Although the agenda is rigorous, here at Edna Karr, we are confident that our senior curriculum will allow our students the opportunity to be highly successful in college.

Edna Karr High School continues to stress high standards of respect for our young adults. Our students are expected to:

1. Come to class on time and dress according to school guidelines.
2. Adhere to the school's honor code (below).
3. Pay attention in class, and maintain daily study habits.
4. Raise their hands to ask or answer questions.
5. Always bring their COVERED textbooks to class, as well as other needed materials, such as notebook, folder, and pencils.
6. Have homework as well as assigned projects done on the due date assigned.
7. Wear uniform appropriately (shirt tucked in and pants worn at waist).

The Edna Karr Uniform consists of: Purple Edna Karr shirts and khaki slacks. Additional rules regarding our uniforms are as follows:

1. Only white shirts may be worn under the uniform shirt
2. Only all black shoes may be worn
3. Shirts should be tucked in at all times
4. Shirt collars must be turned down and visible at all times
5. Shorts, skirts, jeans, hats, scarves, hoods, and hip huggers are not allowed.
6. Students may only wear Edna Karr outerwear during winter weather.

The Edna Karr Honor Code

Type Of Offense	MAJOR Exam, Chapter, or Unit Test	MINOR Quiz, Classroom, Homework
1st	F on assignment; Parent conference	F on assignment; phone call to parent
2 nd	F on assignment; In school counseling, removal from elected office/position, unable to represent school at functions	F on assignment; Parent/Teacher conference
3 rd	F on assignment; Saturday school	F on assignment; In school counseling, removal from elected office/position, unable to represent school at functions
4th	F on assignment; suspension	F on assignment; Saturday
5th	F on assignment; suspension	F on assignment; suspension

Students who are in violation of any of the school policies, including tardiness or uniform violations will be assigned after school detention. Furthermore, we plan to strictly enforce the Edna Karr phone, toy, ipod and headset policy. If the item is seen or heard, then it will be taken for two weeks. Subsequent violations will require a parental visit.

I would greatly appreciate your help in stressing that class work and/or homework assignments are not meant as punishments, but rather to practice the concepts or lessons learned that day. Completion of these assignments will help me to assess each student's understanding of the material prior to test days.

We will have a good deal of homework and class work assignments this semester. I will keep a home/class work log that will be accessible to each student. This enables the students to see what assignment has been missed should he/she be absent. Remember no work will be accepted late unless the student presents a note or doctor's slip regarding the absence. This holds for tests and projects as well as homework. Consideration will be given to students with special needs as indicted by their I.E.P. or 504 designations.

This year we have included a mathematics project in the curriculum for each semester. The rubric for each project will be posted on the school website for my class.

My grading system is as follows:

Advanced Math 1 Honors and College-prep Algebra

Homework/Class work	20%
Worksheets	15%
Unit Tests	20%
Senior project	20%
Final Exam	25%

Our textbooks are very expensive and should be taken care of as the state only adopts a textbook for each subject area every seven years. For this reason we are asking

all students to cover their text books and try to maintain the condition until they are returned to the school. The Advanced Math and Geometry books are \$56 and \$65 respectively.

If you need to contact me, please call the school at the above number and make an appointment. My planning periods are Monday, Wednesday and Friday from 12pm to 1pm, or by appointment. If this is not convenient, I will be happy to return your phone calls during the evening so that I may be of service to you. The school phone number is 504-373-6268.

Please note that our Open House is scheduled for August 27, at 7pm. I hope to see you there and look forward to working with you in preparing these young ladies and gentlemen of today to be our leaders of tomorrow.

Sincerely,

Robert Hill

Advanced Math I

Edna Karr Secondary Scope & Sequence

First Quarter Topics

Units	Specific Topics
Chapter 1 – Trigonometry	1.1 Radian and degree measure 1.2 Unit circle 1.3 Right angle Trigonometry 1.4 Trig functions of any angle 1.5 Graphs of sine and cosine functions 1.6 Graphs of other trig functions 1.7 Inverse Trig Functions 1.8 Applications and Models

Second Quarter Topics

Units	Specific Topics
Chapter 2 – Analytic Trigonometry	2.1 Using Fundamental Identities 2.2 Verifying Trig Identities 2.3 Solving Trig Equations 2.4 Sum & Difference Formulas 2.5 Multiple Angle & Product to Sum Formulas

Third Quarter Topics

Units	Specific Topics
Chapter 3 – Additional Topics in Trigonometry	3.1 Law of Sines 3.2 Law of Cosines 3.3 Vectors in a Plane 3.4 Vectors and Dot Products

Fourth Quarter Topics

Units	Specific Topics
Chapter 4 – Complex Numbers and Exponential and Logarithmic Functions	4.1 Complex Numbers 4.2 Complex Solutions of Equations 4.3 Trigonometric Form of Complex Numbers 4.4 DeMoivre's Theorem 5.1 Exponential Functions and Their Graphs 5.2 Logarithmic Functions and Their Graphs 5.3 Properties of Logarithms 5.4 Exponential & Logarithmic Equations 5.5 Exponential & Logarithmic Models