Ma 330 project I Information

The first project requires the students to organize into groups of 3 to 4 students and select a topic.

We list titles of a few projects done in the past, but this is for inspiration only! You should look for something new!

The chosen topic and brief outline and intended scope should be reported to sathaye@uky.edu

You may also meet with me in person and seek advice.

If different groups end up choosing identical topics, then we will discuss changing the projects.

The deadline for your proposals is 2/5/16.

The project is expected to be between 15-20 pages.

It must be typed and properly formatted, complete with title, abstract, introduction, narrative, conclusions and references.

Using Web resources is permitted, but they must be cited. Also, it is necessary to search some of the references from the web pages directly.

You should make an effort to verify if the opinions expressed in your source are justified. Be sure to include a discussion of why the source is trustworthy.

I have listed some of the old project ideas. I would love to see some new topics!

calculus, fractals, trig, use of astronomyRecent Mathematical Theorems and their importanceHistory of Geom. Concepts of length and area, uses in constructionImportant Theorems of Calculus/AnalysisSpecial numbers Pi, e, golden ratio, physics constantsImportant Theorems of Algebra

Origin of numbers and their development, Calculation techniques	Prime numbers and problems/theorems about them
Ancient uses of geometry, why and how	Uses of prime numbers
Interesting topics for HS students, differences in mathematics between Europe and India, origin of theorems (particularly number theory)	Advancement and application of math through astronomy
Famous theorems (choose one or two) and their authors	Number theory, primes, uses of primes, irrationals
Euclid's elements, Pythagoras Thm. , Newton's work, Euler's work	Important Mathematicians of XXX century
Recent Mathematicians and their work (Consult the history site)	History of Calculus/Analysis
Creation of numbers and zero, levels of infinity	History of determinants
Origin of trig and its uses in application	History of Series
Chinese contribution to Mathematics	