

### **History of Mathematics: Possible Topics for First Paper**

- Egyptian and Babylonian Geometry or Algebra
- Early Mathematics in India, or China, or Japan, etc.
- Early Mathematics in South and Central America
- Zeno's Paradoxes
- Anthyphairesis
- Euclid's Geometry
- The Parallel Postulate
- The Pythagorean Theorem (History, Proofs etc.)
- Pythagoras and the Pythagoreans
- Eudoxus and the "Method of Exhaustion" (Technical)
- Archimedes (His Life and Accomplishments)
- Archimedes and his Measurement of Areas
- The Greeks and Conic Sections
- Eratosthenes
- Classical Construction Problems (the "Delian" problems)
- Greek Number Theory
- The Mathematics of Diophantus
- Fibonacci

(For other ideas, look through books on reserve, as well as **The World of Mathematics**, a four volume set by J. Nagel and E. Newman. There is a lot of information on the Web: try a Search. See me for further suggestions and for help: I have articles you can copy.)