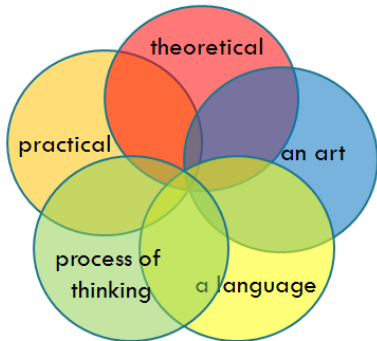# What is Mathematics?

- Math 1010: Introduction to Mathematics
- New readings, activities, videos, research and review
- Project 4 [Choose 2 of 4]
- Final Research Presentations [mandatory]

Mathematics is …

—what mathematics is, has to offer, and usefulness
—the diverse ways that people succeed in it and impact it
—local to global theme
—truth, consequences, and role of probability and chance

Research Presentations: Mathematical Breakthroughs

- two-page typed product
  - mathematical breakthroughs and their timeframes
  - real-life applications and modern significance
  - important contributions from diverse scientists or mathematicians and diverse cultures
  - interesting mathematical pictures that relate
  - related equations
- +annotated bibliography
- +peer review
- tape up all work. Half the class presents at once, and rest peer review

Educational Goals at ASU

- *Thinking Critically & Creatively*
  research and creative product
- *Communicating Effectively*
  writing, speaking and reflecting
- *Making Local to Global Connections*
  math applies in many settings, multiple perspectives
- *Understanding Responsibilities of Community Membership*
  citations, peer review, actively listening to each others
  perspectives and presentations...