Lecturer: Cameron Bruggeman  
Lecturer Email: bruggeman[dot]math[at]columbia.edu

Time: MTWR 10:00am - 12:25pm

Location: TA  
TA: Yang An  
Office Hours: TBA  
TA Office Hours Location: TBA


**Tentative Grading:**
Homework – 20%  
Midterm – 20%  
Quizzes – 20%  
Final – 40%

There will be two homework assignments per week assigned from the textbook.

In addition, at the end of each chapter, there will be a quiz in class on the basic concepts of the chapter. The quizzes will consist mostly of easy multiple choice questions and simple calculations. This works out to being about one quiz each week.

**Tentative Syllabus:**

- *Functions:* Definition and examples of functions, graphs of functions and their properties, transforming functions.
- *Exponentials and Logarithms:* Exponential and logarithmic functions, the natural exponential e, Exponential and Logarithmic equations.
- *Trigonometry:* Trigonometry with the unit circle and right triangles, trigonometric graphs, inverse trigonometric functions, Laws of Sines and
Cosines, Trigonometric identities and equations, addition and summation formulas.

• *Polar Coordinates*: Basic polar coordinates, graphing polar equations, polar form of complex numbers, parametric equations.