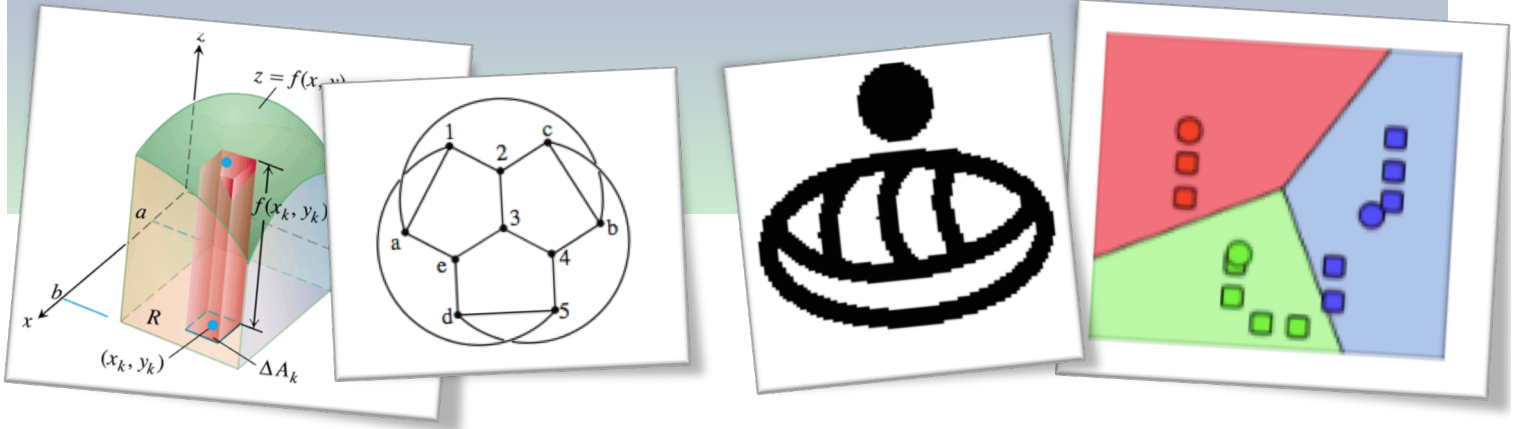# Math (Enthusiast) Series

Joy 114 @ 3:15 unless otherwise indicated

Everyone interested in mathematics is welcome to attend TMath 450's presentations most Tuesdays of Winter quarter (and some Thursdays!)

3/6/18 3:15-3:35pm | Emily Hoang (Capstone)

Linear Optimization and the Simplex Method

Linear programming is a subject area of optimization, a huge field of mathematics. In this talk, we will explore linear programming with a focus on the simplex method, a solving algorithm. We will apply linear programming to optimize the amount of cargo loaded onto an airplane.

3/6/18 3:45-4:05pm | Josh Melanson (Capstone)

Edgy Optimization

We will start with describing the standard, nonlinear optimization problem, while illustrating the concept of convexity and how it ties into optimization. The main topic will be the Karush-Kuhn-Tucker conditions, which describe the relationship between a model and its constraints at optimal solutions.