Math 110 (Section 002) Learning Objectives

Students should be able to do the following things by the end of each respective unit. Additions may be made as the term progresses.

Optimization

1. Explain what a mathematical model is, and give examples of models.

2. Give examples of 'real life' optimization problems in his/her intended field.

3. Solve optimization problems that reduce to analyzing the graph of a function of one variable with a small number of discontinuities, using a systematic method of enumerated steps.

4. Evaluate the suitability of a model based on dimensions, range, and extremal behaviour.