

## MAT220 Chapter 3 Test Outline

1. No Calculator Part
  - Find Limits at Infinity
  - Given a completed table used to gather the characteristics of a function, complete the conclusions
  - Sketch a graph from given characteristics
2. Calculator Part
  - Find relative and absolute extrema on a given interval
  - Apply Rolle's Theorem
  - Apply the Mean Value Theorem
  - Perform the First and Second Derivative Test
  - Find horizontal and vertical asymptotes analytically
  - Optimization problems
3. Take-Home Part
  - More Optimization and application problems
  - Given a function find all key characteristics of a function
  - Differentials and Propagated Error