

## 140 - Calculus I: Test 1 Study Guide

Henson - Fall 09

### TEST 1 TOPICS:

1. Evaluating limits of a function graphically.
2. Evaluating limits of a function numerically.
3. Evaluating limits of a function analytically.
4. Evaluating one-sided limits.
5. Determining the continuity of a function.
6. Evaluating limits of piecewise functions.
7. Identifying places where a function is discontinuous.
8. Identifying types of discontinuities: removable or nonremovable.
9. Evaluating infinite limits.
10. Intermediate Value Theorem.
11. Squeeze Theorem.
12. Fixing a discontinuity before taking a limit; i.e. canceling a common factor.
13.  $\epsilon - \delta$  proofs for basic limits of linear functions.