Unit 1 Limits Test Topics

1) Evaluate Limits Algebraically (Real #'s, Approaching Infinity, One-Sided limits)

2) Evaluating Limits Algebraic with hole in graph: Apply methods of Factoring,

   Conjugates, and/or Common Denominator

3) Identify limits and order pairs from a graph

4) Sketch a function graph given limit properties.

5) Use Continuity conditions with a piecewise function to determine

   continuity/discontinuity (and categorize the type of discontinuity)

6) Apply Intermediate Value Theorem to guarantee a value

7) Find Horizontal Asymptotes (Radical in denominator)   ex. $f(x) = \dfrac{3x}{\sqrt{5x^2-4}}$

8) Comparative Growth Rate: example: $\lim\limits_{n\to\infty} \dfrac{e^{2x}}{\sqrt{2x+1000}}$