

# Chapter 1 Review

**You must be able to or know:**

- 1. Find the limit numerically, graphically, and analytically. This includes one-sided limits**
- 2. Cases when the limit DNE**
- 3. Deal with the indeterminate forms**
- 4. Squeeze Theorem**
- 5. Continuity (What it means and its definition). Be able to test for it or solve for  $c$  given a piecewise function**
- 6. Removable vs. non-removable discontinuity**
- 7. Intermediate Value Theorem**
- 8. Vertical Asymptotes**
- 9. Infinite limits**
- 10. Limits at infinity (3 rules for horizontal asymptotes)**
- 11. Must be able to deal with Piece-wise Functions!**
- 12. Make sure you know your trig/unit circle!**

**Problem Set:**

**p.95 #'s 5, 6, 11 – 25 odd, 29-32, 39-43 odd, 53, 57, 59, 65-75 odd and ANY OTHER EVEN ones from the sections we have covered.**