SOME ISSUES ON THE FIRST MIDTERM

- $\lim |a_{n+1} - a_n| = 0$ does NOT imply the sequence is Cauchy.
- Bounded sequences may not be convergent.
- In the proof of 1(c), you don't have to choose different N_1 and N_2.
- In Problem 2, after taking $n \to \infty$, you should get $a = a^2$ (where a is the limit) instead of $a = \frac{n}{n+3}a^2$.
- A few of you like to "prove" by writing explanations in words. This is what you should avoid in this class. You should try to write mathematical proofs in a rigorous manner.