18.014 UNIT VII: INFINITE SERIES

Thursday, Nov. 16.

Lecture: Sequences and series.

Read: 10.1–10.6, p. 388.

Do: p. 382: 1–13, 17, 18, 23, 24; p. 391: 2, 3, 4.

Friday, Nov. 17.

Lecture: Absolute convergence, integral test.

Read: 10.11, 10.18, 10.13.

Do: p. 399: 15, 16, 18, 19.

Tuesday, Nov. 21: QUIZ 3.

You may have a crib sheet consisting of whatever you want to write on one side of a $8\frac{1}{2}$ by 11 sheet of paper. (No calculators!)

Tuesday, Nov. 28.

Lecture: Tests: comparison, root, ratio.

Read: 10.12, 10.15.

Do: p. 398: 1, 5, 7, 9, 11, 13; p. 402: 2, 4, 6, 7, 9, 13.

Thursday, Nov. 30.

Lecture: Alternating series, improper integrals.

Read: p. 403, 404; 10.23.

Do: p. 409: 1, 2, 3, 5, 9, 10; p. 420: 1, 4, 5, 6, 10.

Hand in Fri., Dec. 1 in lecture (7 points/problem).

1. Evaluate
$$\lim_{x\to 0^+} (2^x - 1)^{\sin x}.$$
2. p. Q.2: 1.
3. p. Q.2: 2.

Date: Fall 2000.