18.014 UNIT VIII: SERIES OF FUNCTIONS

Friday, Dec. 1.

Lecture: Power series.

Read: 11.1, R.1–R.3.

Do: 410: 17, 28, 30, 49, 50; 430: 1, 2, 3, 4, 6, 7, 8, 10. (Don't bother with endpoints.)

Tuesday, Dec. 5.

Lecture: Properties of power series.

Read: R.4–R.9, p. 388–390.

Do: p. 391: 11, 12, 15, 16, 18, 22, 23.

Thursday, Dec. 7.

Lecture: Taylor series.

Read: 11.9, R.10, Notes S.

Do: p. 438: 2, 4, 7, 9, 13, 14, 15, 22, 23.

Friday, Dec. 8.

Lecture: Fourier series.

Hand in Fri., Dec. 8 in lecture (7 points/problem).

1. p. Q.2: 3 and 4.
2. p. 398: 8.
3. p. 402: 8.

Tuesday, Dec. 12.

Lecture: Spare/review. Possibly a guest lecture by Prof. Munkres.

QUIZ 4 will take place during finals week. It will be one hour long.

Date: Fall 2000.