

Math 118 – Week 13
Fall Term 2003
BUCKMIRE

Monday November 17 *Class 32:*

We will discuss the connections between Taylor series and infinite series, and derive a convergence criteria for geometric series.

Homework #20 (4 points):

Smith & Minton, page 635: 5, 54, 61, 62

Due: Class 33

Wednesday November 19 *Class 33:*

We will develop some more tests for how to determine the convergence of an infinite series, especially alternating series. We will look at the harmonic series and introduce the integral test and zero-limit test.

Homework #21 (4 points):

Smith & Minton, page 644: 1, 5, 6, 12, 14, 15, 20, 22

Thursday November 20 Lab

Lab #9: Convergence Tests for Infinite Series.

Friday November 21 *Class 34:*

More practice proving convergence and/or divergence of infinite series using our tests.

Reading:

Smith & Minton, page 622-645

Homework :

Quiz #10