

Math 120 – Week 10 Assignments Spring 2003

Monday March 31 *Class 24:*

Introduction to Infinite Series. What happens when you add up an infinite list of numbers? We'll learn ways of computing the answer to this question.

Homework:

Quiz #8: Improper Integrals
Due on Wednesday in *Class 25*

Wednesday April 2 *Class 25:*

Infinite Series. We shall be introduced to the **Harmonic Series** and learn about the **Integral Test**.

Homework #13: (4 points)

Smith & Minton, page 645: 15, 16, 18, 24

READING: *Smith & Minton* Section 8.1, 8.2 (pages 621-644)

Due on Friday in *Class 26*

Thursday April 3 *Lab 6 :*

Convergence Tests We shall be introduced to a number of convergence tests which can be used to determine whether a given infinite series diverges or converges.

Friday April 4 *Class 26 :*

Applications of Infinite Series. We shall examine the **geometric series** by looking at an example which illustrates why we need to know how to determine convergence of an infinite series: The Generous Donor problem.

Homework #14: (6 points)

Smith & Minton, page 645: 5, 6, 7, 8, 19, 20

READING: *Smith & Minton* Section 8.2 (pages 636-644)

Due on Monday in *Class 27*