

Math 22, Summer I 2016

Homework 8:

11.1, 11.2, 11.3.
numerical integration 7.7

Homework 9: 11.3, 11.4, 11.5 and
start 11.6.

Homework 10: finish 11.4, 11.6 and
11.8, 11.8 and 11.10

Syllabus update : Section 11.3 moved to Wednesday.

- 11.1 - a) first five terms of sequence
 - b) convergence -vs- divergence
 - c) example 11; d) bounded increasing.
- 11.2 - a) geometric series
- b) harmonic series; c) divergence test.

Homework 9:

- 11.3 integral test
- 11.4 comparison test (to geometric or p-series)
limit comparison
- 11.5 alternating series test (AST)
absolute convergence, conditional convergence
- 11.6 ratio test

Homework 10:

- 11.8: power series. radius of convergence, endpoints,
interval of convergence
 - 11.9 functions as power series.
 - 11.10 Taylor series. Taylor polynomial, remainder.
- due Wed, review Thurs, exam 9-11 Friday