

Assignment #6, notes and hints

Problem 9.3.20 The second question is a little tricky since neither the M-test nor the Trivial Test apply. One possible elementary approach is to use the uniform Cauchy criterion.

Problem 9.3.24 Again, the uniform Cauchy criterion is a possible approach (to the first question).

Problem 9.4.3 Follow the proof of Theorem 9.22 which showed that the uniform limit of a sequence of continuous functions must be continuous.

Problem 9.5.3 was done in class and hence is not being assigned.

Problem 9.5.9 is being postponed.

Problems 9.6.1-2 You will need to verify if the assumptions of Theorem 9.34 or Corollary 9.35 (as applicable) are satisfied.