

MATH 140B, SPRING 2008. MIDTERM 1 TOPICS.

Problem 1: Uses the mean value theorem and contraction mapping theorem. Study the lecture notes, homework 1: H1, Apostol 4.68, and homework 4: H1, P1.

Problem 2: Uses the generalized mean value theorem. Study the lecture notes and Apostol 5.1, 5.5, 5.10, 5.11ac, 5.15, 5.16, 5.22, 5.28, and homework 4: P5.

Problem 3: Uses Taylor's formula. Study lecture notes, homework 3: H1 and homework 4: H2, P2.

Problem 4: Bounded variation. Study lecture notes and Apostol 6.1, 6.2, 6.3.