

The text for this course is *Mathematical Analysis I* second edition by Beatriz Laferriere, Gerardo Laferriere and Nguyen Mau Nam. The exercises below are from this text. This homework covers the material discussed in Lectures 14, 15, 16, 17 and 18. It is due 10-26-20.

Problem 61: Exercise 2.6.3 (compact)

Problem 62: Exercise 2.6.5 (limit points and isolated points, practice on terms)

Problem 63: Exercise 2.6.6 (relative topology)

Problem 64: Exercise 3.1.1 part c

Problem 65: Exercise 3.1.1 part e

Problem 66: Exercise 3.1.2 part b

Problem 67: Exercise 3.1.3

Problem 68: Exercise 3.2.1 part a

Problem 69: Exercise 3.2.3 part b

Problem 70: Exercise 3.2.5

Problem 71: Exercise 3.2.7

Problem 72: Exercise 3.3.1 part a

Problem 73: Exercise 3.3.1 part b

Problem 74: Exercise 3.3.2 parts b, c and d.

Problem 75: Exercise 3.3.3

Problem 76: Exercise 3.3.11 (extension from rationals)

Problem 77: Exercise 3.4.1

Problem 78: Exercise 3.4.2

Problem 79: Exercise 3.4.4

Problem 80: Exercise 3.4.5