

Problem set 8: More continuity, derivatives

Math 521 Section 001, UW-Madison, Spring 2024

March 22, 2024

Please solve the following problems in a clear, complete, and concise manner. You are welcome to work together, but your write-up must be your own. Use of outside internet resources is prohibited.

*Due on paper at the beginning of class on **Wednesday, April 10th**.* Please be sure to staple your writeup.

1. Rudin 4.8, 10, 14, 18, 20, 21

Note: Although uniform continuity is not on the midterm, these problems are definitely good practice for the test; you may want to work on them over break.

2. Rudin 5.1, 4, 5, 6, 15

3. (Extra credits +2) Rudin 4.15, 5.25