Calculus II, Spring 2019 (http://www.math.nthu.edu.tw/~wangwc/)

## Homework Assignment for Week 03

- 1. Section 10.6: Problems 4, 11, 25, 26, 28, 29, 30, 35, 39, 43, 49, 53.
- 2. Section 10.7: 7, 11, 15, 19, 23. Hint: To find the radius of convergence for  $\sum a_n x^n$ , apply ratio test or root test to  $\sum |a_n x^n|$ .
- 3. Find a power series that converges on (1,3) and diverges otherwise. Do the same for (1,3], [1,3) and [1,3], respectively.