

## Homework Assignment 1.

Given Feb 25, due Mar 09.

1. Section 9.5: 4, 24, 25, 33, 46, 48.
2. Section 9.6: 12, 16, 21, 27, 28, 35, 36, 38, 41, 43, 44, 45, 46, 47.
3. Additional: Does problem 36 section 9.6 contradicts Theroem 11? Why?
4. Find a power series that converges on  $[-1, 1)$  and diverges elsewhere. Then do the same for  $(-1, 1]$ .