

## Homework 7

Due on Oct 20th on gradescope.

1. (30 pts) Page 124, Exercise 8.4/1. Only need to prove  $\sum_{n=0}^{\infty} s_n x^n = \frac{f(x)}{1-x}$ .
2. (20 pts) Page 124, Problem 8-1.
3. (30 pts) Page 124, Problem 8-2.
4. (20 pts) Page 112, Problem 7-6.