

Intro to Abstract Mathematics Spring 2020

Assignment 10.1 Due April 15

Exercise 1. Textbook exercise 6.4.5. [Suggestion: Use recursive induction with k = 3.]

Exercise 2. Textbook exercise 6.4.6. [Suggestion: If x + 1/x = m and $a_n = x^n + 1/x^n$ for $n \ge 1$, show that $a_{n+1} = ma_n - a_{n-1}$ for $n \ge 2$. Then induct.]