

Intro to Abstract Mathematics
Assignment 10.1 Spring 2020

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 $n \geq 1$, show that $a_{n+1}=m a_{n}-a_{n-1}$ for $n \geq 2$. Then induct.]

