

Complex Variables Spring 2020

Assignment 11.2 Due April 22

Exercise 1. Textbook exercise IV.6.2.

Exercise 2. Prove that if the series $\sum_{k=0}^{\infty} a_k$ and $\sum_{k=0}^{\infty} b_k$ both converge absolutely, then so does their Cauchy product. [Suggestion: Apply the theorem proven in class to the series $\sum |a_k|$ and $\sum |b_k|$, and use the comparison test.]