

$\begin{array}{c} Complex \ Variables \\ Fall \ 2024 \end{array}$

Assignment 8.1 Due October 23

Exercise 1. Let $A \subset \mathbb{C}$ be a domain and let $f, g : A \to \mathbb{C}$ be analytic on A. Show that if $\operatorname{Re} f = \operatorname{Re} g$, then f = g + ia for some $a \in \mathbb{R}$.

Exercise 2. Textbook exercise 1.5.22.

Exercise 3. Textbook exercise 1.5.25.