

Homework 2.

Due October 27.

1. Prove Theorem 1.2 on page 44.
2. Let $A \subset \mathbb{C}^n$ be the set given by

$$A = \bigcup_{j=1}^{\infty} \{z_n = 1/j\}.$$

Suppose that f is a holomorphic function on \mathbb{C}^n such that $f|_A = 0$. Prove that $f \equiv 0$.

3. Solve Problem E.2.6 on page 30.