

Introduction to Theoretical Computer Science, Fall 2024
Assignment 8 (Due November 18 Monday 4:00 pm)

Only part I will be graded.

1 Part I

- Q1. Let A and B be two languages. Suppose that $A \leq B$. Prove that if B is recursively enumerable, so is A .
- Q2. Let A and B be two languages. Prove that if $A \leq B$, then $\overline{A} \leq \overline{B}$.
- Q3. Let A be an arbitrary recursively enumerable language. Show that there is a reduction from A to H_{TM} .