

Assignment 7

Due: Sunday, November 27th

Problem 1 Prove or disprove: if $A \leq_m B$ and B is a regular language, then A is a regular language.

Problem 2 Use a reduction to show that the language ALL_{TM} is undecidable

$$ALL_{TM} = \{\langle M \rangle \mid \text{where } M \text{ is a TM and } L(M) = \Sigma^*\}$$