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 $\text{ALL}_{TM}$ is undecidable

$$\text{ALL}_{TM} = \{(M) \mid \text{where } M \text{ is a TM and } L(M) = \Sigma^*\}$$