Quiz 4

0. Your NAME:

Let $A_{\text{REG}} = \{\langle M \rangle : \ M \text{ is a TM and } L(M) \text{ is regular}\}$.

1. Prove that A_{REG} is **not** r.e. (r.e.=Turing-acceptable).

2. Prove that A_{REG} is **not** co-r.e. (co-r.e.=complement is r.e.).