Quiz 3

1. Prove that the following language is r.e.:

   $L = \{\langle M \rangle : M$ is a TM and M accepts some string that ends in a '0' $\}$

2. Prove that L is not decidable.

3. Is it possible to prove that $\overline{A_{\mathrm{TM}}} \leq_{\mathrm{m}} L$? Explain.