Quiz 3

0. Your NAME:

1. Complete the following definition:

Let A and B be languages. Then $A \leq_{\mathrm{m}} B$ if . . .

2. Let $L = \{\langle M_1, M_2\rangle : M_1 \text{ and } M_2 \text{ are TMs and } L(M_1) \subseteq L(M_2)\}$.

Show that $A_{\mathrm{TM}} \leq_{\mathrm{m}} L$.

(Recall that $A_{\mathrm{TM}} = \{\langle M, w\rangle : M \text{ is a TM and } M \text{ accepts } w\}$.)