

1. (1 pt.)

- This *quick check* is **closed book, notes, etc.**
- You may use a 3 in. × 5 in. **reference card**, *hand-written by you*.
- Use the **classroom and textbook conventions** and terminology.

Read the above carefully; then write your name below:

2. (3 pts.) State the question on Turing Machine encodings that was recently asked on the class newsgroup, along with its answer.

3. (2 pts.) In the context of Chapter 5 of the textbook, define *reduction*.

4. (2 pts.) Provide the definition of  $\text{HALT}_{TM}$ .

5. (2 pts.) Provide the definition of a *linear bounded automaton*.