

1. (1 pt.)

- This *quick check* is **closed book, notes, etc.**
- You may use a 3 in. \times 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. (4 pts.) State the problem (related to a particular factorial) posed on the newsgroup recently. Also state the partial or complete solutions outlined in responses. (You need only provide details that serve as convincing evidence that you have read the messages carefully.)

3. (3 pts.) State the names (using the textbooks nomenclature) of any three of the five problems that are proved NP-complete in the last section of Chapter 7 of the textbook.

4. (2 pts.) State the *Cook-Levin theorem* from the textbook.