This exam contains 6 pages (including this cover page) and 8 problems. Check to see if any pages are missing. Enter all requested information on the top of this page, and put your initials on the top of every page, in case the pages become separated.

- Exam is closed book and notes. You may use a scientific calculator but not any other type such as a graphing calculator or a cell phone calculator.
- You have 50 minutes to do the exam. When the proctor calls time you must stop writing and hand in your papers or you may be given a score of 0%.
- Do all your work in the spaces provided on these sheets. If you need additional space ask the proctor for more paper.
- For problems that have more than one part, numbers in parentheses ( ) indicate the point value for that part.
- Write your answer in the space provided for each problem. Answers must be in simplest form.
- Your solutions are graded primarily for procedure and partial credit is possible. To receive any points you must show the detailed mathematical steps needed to arrive at your answers.

Do not write in the table to the right.

You may NOT use a graphing calculator on this test. Doing so will result in a score of 0.