

MA 154, Spring 2003

SAGE, The Online Homework System

Starting with Lesson 5, and running for the rest of the semester, you will be completing your homework online, using SAGE, the Math Department's online homework system.

The program is easy to use and indicates immediately whether an answer is correct or incorrect. If the answer is incorrect, multiple tries are allowed, at no penalty, until the correct answer is found. The problems are similar to those in the text and they line up with the problems on the assignment sheet one-for-one.

Technical stuff:

- **Web Site:** Go to: www.math.purdue.edu/MA154 and hit the link to SAGE
- **ID:** Your Purdue Id number (with dashes).
- **Password:** Your password will be given to you in class. Later, it will also serve as your password for finding your exam scores online. If you forget your password, ask your instructor or Mr. Delworth.
- **Problems?** Tim Delworth, delworth@math.purdue.edu, will answer technical questions, (i.e. problems your having with the system, rather than with the math). Please use email, and allow for an appropriate amount of time to receive a response.

Getting started:

- Go to the web site listed and log in using the above instructions.
- Click on the pull down menu for "Choose a lesson", highlight "5", and click on "Go to that lesson".
- Problem #1 should appear. If not, repeat the above procedure for "Choose a problem"
- When Problem #1 does appear, work out the problem, type your answer in the box provided, and click, "Submit answer."
- If the answer is correct, the box disappears and the answer cannot be changed.
- If the answer is incorrect, the box remains and you need to calculate and enter a different answer. Keep trying, as there is no penalty for multiple attempts.
- When the answer is correct, or you have given up, go to the top of the page and scroll to, "Problem #2". Click, "Go to that problem" You are now off and running.
- The lesson will always be due at midnight on the day you review the homework in class.
- Lesson 5 is to be completed by midnight Monday, January 27th, Lesson 6 is to be completed by midnight Monday, January 29th, etc....
- You will still be able to access and answer the questions to lessons whose deadlines have passed, however, you will not receive any additional credit.
- Each homework assignment is worth 10 points. Points are distributed evenly for each question in the assignment.
- Notice that the top of each problem tells you the chapter, section and problem number from the text.
- **Note:** For Lesson 5, problems 60 and 61 could not be programmed. Please complete them on paper and bring them to class. Although they will not be graded, they are fair game to appear on Exam 1. This is also true for the last three questions for Lesson 6.

System Stuff:

- You can work from a home computer or from a Purdue lab.
- Problem sets are individually generated for each student. While your questions will be similar to other students' questions, your answers will not be the same.

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- Your problem set does not change no matter how many times you log in or out. You can print out your questions, log out, work them, log back in, and test your answers. You will always have the same problems with the same numbers.
- To print out a problem, use the print button on your browser.
- The system is set to log you out if your session has been inactive for twenty minutes. If you walk away from the computer or take a long time to work a problem, you may have to log back in. If you find yourself spending a lot of time working a problem, you may want to hit, "Submit answer" every few minutes to keep your session active.
- Answers are saved by the system when you log out, are timed out, go to a new lesson using "Go to Lesson" button, or go to a new problem using "Go to Problem" button.
- Do not use the, "Back" or "Forward" buttons in your browser. Only use the directional features in the program.
- If you quit improperly or crash your session, you will have to wait until it times you out (20 minutes) before you will be allowed to get back into the system. If the things seem extremely slow, it may be your connection rather than the system itself.
- In multiple part problems, you have to get all the parts correct to receive credit for that question.

LOGGING OUT:

- There is a Logout button at the bottom of each page. PLEASE make sure to use it when you wish to leave the system. If you leave the system without logging out, you will have to wait until the system times you out (20 minutes) before being allowed to log back in.
- Keep your written work and answers, in case this happens.

Notation help:

- $A = m$, $B = m$, $C = m$
- The degree symbol is already on the screen; do not try to type it with your answer.
- $\frac{\sqrt{2}}{2}$ is entered as: sqrt(2)/2 and $6\sqrt{2}$ is entered as: 6*sqrt(2)
- $\frac{7}{4}$ is entered as: 7*P and $\frac{\pi}{4}$ is entered as: Pi/ (The P in Pi has to be capitalized)
- $x = \frac{\pi}{6} + 2n$, $x = \frac{5\pi}{6} + 2n$ is entered as Pi/6+2*Pi*n, 5*Pi/6+2*Pi*n
- $\tan^{-1} \frac{7}{3}$ is entered as: arctan(7/3)
- $\frac{9}{\sqrt{2}}$ can be entered as 9/sqrt(2) or 9*sqrt(2)/.
- $2i$ is entered as: 2 * I (The I has to be capitalized)
- Undefined, or No Solution, is entered as undefined
- Infinity and negative infinity are entered as: +inf. and -inf. (the period is necessary)
- Always use comma to separate multiple answers.

Errors: Here are some possible reasons why your answer is incorrect.

- You may simply have the wrong answer.
- You may be answering in degrees when the problem is asking for radians, or visa versa.
- You may have made a rounding error, or rounded too soon.
- Your calculator may be in the wrong mode.
- In a multi-part problems, you may have carried forward a rounded solution from one part of the problem to the next. Use the entire calculator readout to calculate the next part.
- The problem is asking for the exact answer and you are entering an approximated answer.