MA 15900 Final Exam Memo/Preparation
Wednesday, December 16 – 3:20 <u>PM</u> (2 hour exam)

**ROOM CHANGES FOR THE FINAL EXAM:
RICHER, SCHENDEL, & AKHMADULLINA -- in LILY 1105
  All other instructors are in the Loeb Playhouse in Stewart Center
    PACKETT, CHENG, & CHUANG – LOEB – in BALCONY
    KAMAR, KAMBER, MILLER, MISHRA, & CARRION – LOEB – on MAIN FLOOR
**Bring your Purdue ID to the Final Exam
**Remember to be 10 to 15 minutes early to get your seat assignment.

**The final exam is comprehensive and will cover types of problems and concepts from the entire semester. Approximately one third of the exam will be trigonometry from section 6.1 to the end of the semester, so there is a slight emphasis on the later material covered in the course.

**There are 30 multiple-choice questions with only 5 choices for each problem instead of 9. In spite of the increased number of problems, and for various reasons I will not detail, the time pressure on students to finish the exam in the 2 hours allotted is little different than what you have experienced on the midterm exams. The vast majority of students will easily be finished showing me what they know before or well before the allotted 2 hours is expended.

Formulas given on the Final Exam will be the same as those given on Exam 3 plus the 3 double-angle formulas and the 3 half-angle formulas that will be presented in Lecture/Lesson 40. These 'Exam/Quiz Formulas' are posted on the MA 15900 webpage:www.math.purdue.edu/MA15900

MY PREPARATION SUGGESTIONS FOR THE FINAL EXAM (prioritized):

1. **The homework for the entire semester is your best guide to what could appear on the Final Exam.** I would look at every homework problem listed on the assignment sheet (bold and unbold) and start working some of the odd problems near those problems. Most students will not have to work very many of certain types of problems, so based on what you personally know and do not know pick and choose what sections you most need to focus on.

2. On the web page you will find a set of **practice questions for the final exam**. These are 66 multiple-choice problems that are good to go through at some point. Try your best to figure out the solutions yourself. The detailed, worked out solutions are also posted to the webpage.

3. The old exams on the webpage are also good to practice. **Copies of this semester's exams** have been added to the **past exams link on the webpage**, if you want to rework any of those. www.math.purdue.edu/MA15900

4. **Review problems from the book.** Most of the review problems at the end of the chapters are applicable and the answers to all of those problems are in the back of the book. Below are listed the specific problems I listed on the exam memos plus a few new problems that cover the material since exam 3.

p.50—12, 15, 19, 20, 22, 30, 31, 35, 38, 41, 45, 47, 50, 55, 60, 65, 68, 75, 77, 79, 85
p.119— 4, 6, 7, 8, 9, 10, 13, 15, 25, 26, 28, 29, 31, 32, 33, 38, 39, 41, 42, 47, 50, 53, 55, 61, 63, 67, 68, 71, 74, 75, 85, 90, 91
p.205—1, 2, 3, 5, 6, 8, 11, 14, 16, 18, 19, 22, 23, 24, 25, 41, 42, 46, 49, 51, 53, 54, 57, 60, 62, 64, 65, 66, 68, 69, 71, 74, 79, 80, 81, 84, 85, 89, 90
p.272— 3, 4, 6, 9, 27, 29, 30, 32, 33, 36, 40, 41, 44, 46, 48, 49
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p.496 — 41, 42, 43, 51, 52, 53, 54, 55, 56
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