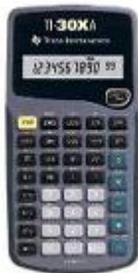


MA 15400, Spring 2013, Exam 3 Information

- ◆ Exam 3 is on Thursday, April 11th from starting at 6:30 PM in the Hall of Music. You will be given 60 minutes to complete the exam.
 - ◆ Your seat assignment will be emailed to you before the exam. Please know your seat assignment before arriving at the exam site.
 - ◆ **Calculators:** A single-line, TI-30XA calculator is all that is allowed for the exam. You will not be allowed to use a two-line or graphing calculator, a cell phone, or any other device.
 - ◆ During the exam, do not ask the instructor or a proctor any questions unless you think there is a typo. It is not fair to give you a hint unless the same hint is given to all the students.
 - ◆ The exam consists of 15 multiple-choice questions covering Lessons 24 through 33.
 - Section 8.1: 3 Questions
 - Section 8.2: 3 Questions
 - Section 8.3: 7 Questions
 - Section 8.4: 2 Questions

This is a rough estimate, since some of the questions span more than one section.
 - ◆ The formulas provided on this exam are on the **attached cover page**.
 - ◆ Previous exams are available at the course web site. Not every problem on the exam will be just like a problem from an old exam. Homework, quizzes and the review problems should be studied to be adequately prepared. The number of lessons covered on each exam varies from semester to semester. Old exams are a good guide, however, to be careful.
 - ◆ If you have a valid schedule conflict with the exam time, see Tim Delworth by Tuesday, April 9th, in his office, Math 814. You can also email him at delworth@math.purdue.edu. Do not assume an excuse is valid until you hear from Tim.
 - ◆ If you miss the exam for a last minute emergency, contact Tim Delworth immediately.
 - ◆ Students with valid reasons for missing an exam will be given the makeup exam without a grade penalty. Students with non-valid reasons for missing the exam will be given the makeup exam with 20 points being deducted from their score. All conflicts are confirmed.
 - ◆ **20-minute rule:** Students are not allowed to leave the exam site for the first 20 minutes of the exam. Students arriving after the first 20 minutes will not be allowed to take the exam and will sign up for the alternate exam. For a valid reason, no grade penalty will be assigned; however, for a non-valid reason, there will be a 20 point penalty.
 - ◆ Bring a picture ID to all exams. Everyone will have their ID checked. If you forget, it will take you a long time to get out of the exam room.
 - ◆ A few hours after the exam, the exam answers will be posted on the course web page.
 - ◆ A few days after the exam, exam scores will be available from a link on the course web page and from the grade book in WebAssign. Letter grade cutoffs will also be posted on the course web page. They are a good estimate of where you stand in the class.
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- ◆ Exam 3 Review Problems:
 - Page 557; 5-8, 11-16, 19, 20 (a, b only), 21(a, b only), 42, 43, 44, 45 (a only)



This is a good sampling of problems to review. Please bring the posted Exam 3s, from the course web page, to class for the in class review session before the exam.

Name: _____ PUID _____

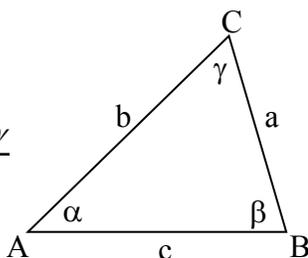
Time	Section	Instructor	Room	Time	Section	Instructor	Room
7:30 MWF	0001	Delworth, Tim	LWSN B151	9:00 Th	0051	Delworth, Tim	HIKS B853
9:30 MWF	0021	Delworth, Tim	LILY G126	7:00 MW	0061	Delworth, Tim	REC 112
10:30 MWF	0031	Jill Miser	REC 313	Online	0071	Delworth, Tim	
11:30 MWF	0041	Jill Miser	REC 313				

Instructions:

- ◆ You must use a #2 pencil on the answer sheet.
- ◆ On the answer sheet, fill in: (This has to be correct to find your score online.)
 - a) Your last name, first name and middle initial and blacken the appropriate spaces.
 - b) Your section number and blacken the appropriate spaces.
 - c) Your 10-digit student identification number and blacken the appropriate spaces.
 - d) Leave the test/quiz number blank and sign your name at the bottom of the answer sheet.
- ◆ Make sure that the cover of this exam matches the color of your answer sheet. If you are color blind, ask the person sitting next to you for assistance.
- ◆ There are 15 questions. On the answer sheet, blacken your choice of the correct answer in the spaces provided for questions 1-15. Do all of your work on the question sheets. Turn in the answer sheet when you leave and keep the question sheets. Only the answer sheet will be graded. Do not walk out of the Hall without turning in your answer sheet!
- ◆ All questions are worth the same. Please answer every question. No points will be deducted for wrong answers, so why would you not answer every question?
- ◆ A TI-30 XA, one-line calculator may be used. No other calculator is allowed.
- ◆ Besides your calculator, all other electronics devices must be turned off and out of sight.
- ◆ No books or papers are allowed. You cannot bring in a unit circle or a formula sheet.
- ◆ The exam is self-explanatory. Do not ask questions about any of the exam problems.
- ◆ Exam answers will be posted on the MA 15400 course web page about two hours after the exam. Exam scores will be posted in the grade book in WebAssign about two day after the exam. Please check your exam score online before the next exam. The posted score is the official score. If you feel there is an error, contact Tim Delworth, delworth@math.purdue.edu

LAW OF SINES

$$\frac{\sin \alpha}{a} = \frac{\sin \beta}{b} = \frac{\sin \gamma}{c}$$

**LAW OF COSINES**

$$c^2 = a^2 + b^2 - 2ab \cos \gamma$$

ANGLE BETWEEN TWO VECTORS:

$$\cos \theta = \frac{(\vec{a}) \cdot (\vec{b})}{\|\vec{a}\| \|\vec{b}\|}$$