Information for Midterm 2

1- The test will be held during the class time on Monday, 11/16 in Center 101.

2- You must bring a Blue Book to the exam. Blue books can be purchased at a variety of locations around campus, including the bookstore.

3- Please bring your UCSD student ID to the exam and expect it will be checked.

4- You may bring one 8.5”*11” sheet of handwritten notes (written on both sides) to the exam. This “cheat sheet” may contain anything you deem useful, **with the exception of solved problems or examples.** You must turn in your cheat sheet with your blue book.

5- No calculators (or other electronic devices)!!

6- You must know your discussion section ID:

Haik Manukian

- B01, Tu 6:00p - 6:50p
- B02, Tu 7:00p - 7:50p
- B03, Tu 8:00p - 8:50p
- B04, Tu 9:00p - 9:50p

Yashodhara Prabhuzantye

- B05, Tu 7:00p - 7:50p
- B06, Tu 8:00p - 8:50p

**If you attend a different section from the one in which you are enrolled, specify which is which on your blue book. For example you may write “I am enrolled in B03 but I attend B06”.**
Topics

The exam covers sections 11.3, 11.4, 7.2, 7.3, 7.5 and the parts of the supplement discussed in the course. This means the test covers the material on homework’s 4-6. In particular, make sure you are familiar with the following topics:

1- Polar coordinates: (Sections 11.3 and 11.4)
   1-1) Converting between polar and rectangular coordinates.
   1-2) Area in polar coordinates.

2- Complex numbers: (Supplement)
   2-1) Arithmetic, complex conjugation, polar form of a complex number.
   2-2) de Moivre’s Theorem.
   2-3) Finding nth roots of complex numbers.
   2-4) Complex exponentials.
   2-5) Integration using complex exponentials.

3- Trigonometric integrals. (Section 7.2)

   You do not need to memorize the reduction formulas on page 410. If needed, those formulas will be given to you on the test.

4- Computing integrals using Trigonometric Substitution. (Section 7.3)

5- Computing integrals using the Method of Partial Fractions. (Section 7.5)

Note that the newer material builds on the concepts we learned earlier in the quarter. You will be expected to understand the material we covered earlier in the class (e.g. substitution method) in addition to the above topics.
NOTE: The second midterm exam consists of 4 questions. One question will be selected from homework problems. The other three questions will be similar to examples presented in class and the problems that we will solve in the review session.

Every effort is made to make the exam questions clear, correct, and straightforward. However, minor errors are sometimes detected during the exam. Should this occur, the appropriate correction will be written on the board.