

**MATH42      Precalculus II: Trigonometric Functions      Spring2015**

Monday through Friday: 7:30 - 8:20am in G5

**INSTRUCTOR:** Nina Danilova

**Tutorial Center**

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**OFFICE HOURS: 9:30am-10:10 M-Th Tutorial Center**

**Course Description:** The theory of trigonometric functions and their applications.

**Text:** *Precalculus with Limits*, by Ron Larson, 2<sup>nd</sup> edition, 2011, Brooks/Cole, Cengage Learning  
More than ever in your past mathematics experience, *reading* your textbook will be essential. The exercise sets are written with the intent of forcing the student to approach problems graphically and numerically, as well as the traditional symbolic (algebraic) approach. There is such variety in the exercise sets, that a few lecture examples often can't illustrate every type of question in the homework. This makes the reading a crucial part of the students day-to-day work. The De Anza College catalog advises students to do at least 2 hours of work outside the classroom for each hour spent in class.

**Technology:** Students must have a graphing calculator. The instructor will use a Texas Instruments TI-84 plus in lectures. Consequently, the TI-84 plus (or TI-84, TI-83+, TI-83) is recommended for the students, but any graphing calculator that has a "table" feature is acceptable. (The old TI-81 and TI-85 models do *not* have a table feature!). *Any calculators that can do symbolic mathematics such as TI*

**Pre-requisite:** Mathematics 41 or equivalent (with a grade C or better); or a satisfactory score on the College Level Math Placement Test within the last calendar year -89 or HP-49 are not allowed

**Class Rules:** Cheating will not be tolerated. While being in class, you should turn off your cell phone or beeper. No walking in and out please. Don't hesitate to interrupt me – your questions are very welcome.

**Attendance:** Attendance will be taken at each session. **You are expected to attend all classes on time.** If you miss 3 class meetings, you may be dropped from the class. However this is your responsibility to drop the course officially if you decide not to attend any longer.

The students are responsible for any material covered and any announcements made in their absence.

**Homework:** You are responsible for all assigned **problems of the sections covered in class and all problems given in my handouts. You have to spend two hours of doing homework for each hour in class. I will spend several minutes in the beginning of each class meeting to answer your questions, if any, about homework problems.** The instructor will collect (and grade) HWs on the three midterm exam days. Usually, no late home assignments will be accepted. You have to staple your homework.

Each section should start from a new page. Put the number of each section and the numbers of problems assigned at the top of this page (it helps a lot in grading). Don't forget write your name on the first page.

**Quizzes:** There will be frequent quizzes usually not announced beforehand. **No make up quizzes!**

**Midterms:** Three one-hour examinations, each worth 100 points, will be given. Each midterm will be announced beforehand. **No make up examinations!** If you cannot take a midterm at the time assigned, you can take it earlier letting me know a couple of days earlier. The lowest midterm grade will be dropped.

**Final Exam:** There will be a mandatory comprehensive two-hour final exam worth 200 points, and this exam *must* be taken during the scheduled exam time **on Tuesday June 23**

**at 7:00am-9:00 am.**

### **Homework Assignment**

<b>Section</b>	<b>Problems</b>
HW1 <u>4.1</u>	##1-6(all), 16, 32, 46, 48, 50, 58, 64, 66, 70, 72, 80, 82, 88, 92, 98, 102, 107, 112, 115, 119
HW2 <u>4.2</u>	##1-4(all), 6, 10, 12, 16, 24, 28, 30, 34, 42, 46, 52, 54, 56, 58, 59, 60
HW3 <u>4.3</u>	##1-4(all), 6, 8, 10, 12, 14, 16, 20, 24, 28, 30, 32, 34, 38, 42, 44, 46, 48, 56, 60, 64, 67, 69, 70, 71, 72, 74, 88
HW4 <u>4.4</u>	##10, 12, 14, 16, 22, 24, 26, 28, 36, 38, 44, 46, 50, 52, 54, 56, 58, 60, 62, 66, 72, 82, 86, 92, 94, 97, 98, 100, 101, 102
HW5 <u>4.5</u>	##1-4(all), 6, 8, 10, 12, 22, 24, 28, 32, 34, 38, 40, 52, 58, 62, 66, 68, 70, 74, 78, 80, 87, 90, 94
HW6 <u>4.6</u>	##1, 2, 5, 6, 7, 9, 16, 34, 36, 44, 50, 51, 52, 54, 62, 64, 66, 72, 73, 86, 90, 91, 92, 93, 95

HW7 4.7 ##1-4(all), 6, 8, 10, 12, 14, 18, 20, 22, 26, 34, 42, 44, 46, 52, 54, 56, 58, 60, 62, 68, 72, 80, 84, 86, 88, 98, 102, 105, 106

HW8 4.8 ##1, 4, 6, 8, 10, 14, 16, 19, 21, 23, 24, 25, 26, 27, 29, 30, 33, 34, 37, 39, 41, 44, 46, 56, 60, 65

HW9 5.1 ##1-4(all), 6, 12, 14, 16, 18, 24, 25-30(all), 31-36(all), 38, 42, 46, 48, 50, 52, 54, 56, 60, 62, 63, 64, 66, 68, 70, 72, 76, 78, 80, 82, 86, 92, 93, 98, 100, 102, 108, 123

HW10 5.2 ##1-8(all), 12, 14, 18, 20, 22, 28, 32, 38, 40, 42, 46, 48, 50, 58

HW11 5.3 ##1-4(all), 6, 12, 14, 16, 17, 18, 20, 22, 24, 26, 28, 30, 32, 36, 40, 46, 56, 62, 72, 80, 88, 89, 93, 95

HW12 5.4 ##1-6(all), 8, 9, 10, 12, 14, 18, 24, 28, 32, 34, 46, 48, 53, 64, 66, 70, 76, 78, 84, 88, 90

HW13 5.5 ##1-10(all), 12, 16, 20, 22, 26, 27, 30, 34, 38, 42, 43, 50, 52, 53, 58, 60, 70, 74, 78, 82, 86, 90, 93, 98, 108, 116, 132, 137

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HW14 6.1 ##1-4(all), 6, 7, 8, 10, 18, 22, 26, 30, 36, 40, 42, 45, 46, 47, 48, 49, 50, 51, 52, 53, 55, 56

HW15 6.2 ##1-4(all), 7, 8, 10, 16, 21, 26, 30, 32, 34, 38, 41, 43, 44, 46, 47, 49, 58

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HW16 10.7 ##1-4(all), 6, 8, 10, 12, 16, 20, 24, 26, 32, 36, 40, 46, 48, 50, 52, 56, 60

HW17 2.4 ##2, 3, 4, 6, 8, 11, 14, 18, 22, 24, 26, 28, 29, 32, 34, 36, 38, 40, 44, 46, 50, 54, 56, 58, 64, 68, 72, 74, 92

HW18 6.5 ##1-4(all), 6, 10, 12, 14, 16, 18, 20, 22, 24, 34, 36, 39, 40, 44, 48, 52, 54, 62, 68, 72, 82, 84, 86, 88, 92, 94, 98, 100, 102