

DE ANZA COLLEGE

Math 42-23 (22397): Precalculus II: Trigonometry

Date/Time : Tuesdays and Thursdays, 1:30 pm – 3:45 pm (S46)

Instructor: Y. AuYOUNG

V-Mail : (408) 864-8999 ext 3312

Office Hours: TTh 12 – 12:45 pm (via e-mail auyoungyatman@fhda.edu), 12:45 – 1:15 pm (office E37a), and by appointment

(Note: For your protection, I cannot and will not discuss any personal info, including student grade, via phone/email)

This is a demanding, but rewarding class. If you cannot commit to a minimum of 10 hours study weekly, then you should take this class in a quarter when you have time to learn. This is a collaborative class and you will be expected to work with your classmates both inside and outside of class. You are encouraged to form study groups. Throughout the course, working collaboratively in groups and relating the material to the real world will be stressed. A scientific calculator (TI-83 or 84) will be used. Bring pencil, ruler, paper, calculator, and text to each class meeting. Students will apply the tools of algebra to study the theory of analytic trigonometric functions (both unit circle and right triangle approaches) and applications, including Trigonometric identities, equations, inverse functions and their graphs. Solve problems and applications, including the Sines/ Cosines, vectors and dot-products, and Trigonometric form of Complex numbers and ops, including DeMoivre's Theorem and the CIS notation.

Students Learning Outcomes (SLO): Formulate, construct and evaluate trigonometric models to analyze periodic phenomena, identities and geometric applications

Prerequisite: Math 41 (with a grade C or Better)

Text: Pre-Calculus with Limits by Larson 3rd Edition, (Brooks/Cole CENGAGE Learning)

Related Materials: TI-83 PLUS (or 84 or 86) graphing calculator is required (**Instructions:** <http://www.ti.com/calc>)

Student Conduct: You are required to participate in all class work. Any student disrupting class will be asked to leave. A student who refuses to leave the room will be dropped from the class and will be reported for further action.

Cheating will not be Tolerated. If anyone is caught cheating in any work (in class/take home), s/he will pay the consequences

Cell Phones: In the classroom, you **must turn off or set in vibrate mode your cell phone and all electronic equipments.** If it rings in class, you will have to leave and this will count as a full class absence. **If this should occur during a quiz, test or any exam, the student will receive a zero grade for that exam. Cell phone cannot be used as a calculator or for any purpose in any exam.**

Attendance: Class attendance is mandatory and can earn up to 20 points for perfect attendance. You are expected to present promptly each class and stay for the entire class. Coming late, leaving early or in and out the classroom is irresponsible, impolite, and disruptive to your classmates and is not acceptable. Each absence, tardiness for any reason will result in a loss of 2 points. Arriving to class late or leaving early will be counted as half absent. You may be dropped for missing 2 classes without a reasonable excuse. **You must attend each class in the first week of class or you will be dropped.** If you miss a class, please work with a fellow student to keep up with class activity. You are responsible for reading the material on your own and for turning in all assignments that is due on the day you return to class.

Drop Policy: A student who discontinues coming to class and does not drop the course will receive an F. Should you stop attending, you will not be automatically dropped. **It is your responsibility to drop the class yourself.**

Homework: The purpose of homework is to help you learn the course material. It is your responsibility to read the text **before each class** and do the homework **on a daily basis.** You will be involved in a group with whom you may share your work. Homework must be done daily and will be **collected on the due date at the beginning of class.** Grading will be on your effort, neatness, and completeness. In order to receive full credit, you **must** follow the guidelines as described in the first class meeting and show how you arrived at the answer for each problem. **Turning in answers only is not considered completing the assignment. Late or sloppy homework could not earn any credit.** Some of the problems on quizzes/tests will be very similar to the homework/classwork problems. Please keep up with the assignments daily. **If you cannot commit 2 hours daily on study/homework, you are in the wrong class!** Collaborative effort on quizzes or tests, however, is **not** allowed. **Students who don't do homework do not succeed in math! Please keep up with the assignments daily.**

Projects: Projects are done in groups and use data collected by the group. **No make-ups or late papers will be accepted.**

Quizzes: Quizzes are closed book. Quizzes will test your understanding of the class material, and understanding and completion of homework problems. **The lowest quiz grade will be dropped. No make-ups are given for missed quizzes.**

Tests: Tests are closed book. **The lowest test grade will be dropped. No make-ups are given for missed tests.**

Final Exam: A two-hour comprehensive exam will be given on Tuesday, Dec 13, 2016, 1:45 pm – 3:15 pm. **If you miss the final exam without my approval in advance, you will receive an F for the course.**

Grade: Quizzes (6@10) : 50 (lowest 1 dropped)
 Tests (3 @100) : 200 (lowest 1 dropped)
 Attendance : 20
 Homework/Project : 40 (project - extra credits)
 Final Exam : 200 **D⁻:**
 Total : 510

A⁻: 460 – 475 **A:** 476 – 489 **A+:** 490 or above
B⁻: 410 – 429 **B:** 430 – 447 **B+:** 448 – 459
C: 360 – 387 **C+:** 388 – 409

306 – 330 **D:** 331 – 345 **D+:** 346 – 359
F: below 300

Math 42 - 03: Precalculus II: Trigonometry
Minimum Homework Assignment Cover Sheet

Name: _____ Row: _____ CID: _____

Assignments are handed in within the first 3 minutes of the day they are due. **Late or sloppy work will not be accepted. Work MUST be neatly done in pencil on an 8½ x 11 loose-leaf binder paper.** Each answer must be clearly indicated and supported by sufficient work for full credit. Graph must be neatly done on a graph paper (use a ruler). Draw a line between each problem and **start a new page for each section.** Start each section on a new sheet of paper. Problems in each section must be clearly written and in proper order sequence. Staple each section separately. Submit HW and this cover sheet inside a two-pocket folder on the due date. Pass your HW folder to the front row at the beginning of that class.

Note: Check the HW# on the space provided & circle the problem(s) that you did not complete in this homework package.

_____ H1 (8 sections: 4.1 – 4.8) due Thursday, Oct 20 _____ H2 (5 sections: 5.1 – 5.5) due Thursday, Nov 10 _____ H3 (5 sections: 6.1 – 6.5) due Tuesday, Nov 22 _____ H4 (2 sections: 10.7 and 10.8) due Thursday, Dec 1	Test 1 (Ch 4: 4.1 – 4.8): Thursday, Oct 20 Test 2 (Ch 5: 5.1 – 5.5): Thursday, Nov 10 Test 3 (Ch 6: 6.1 – 6.5): Tuesday, Nov 22 Final Exam: Dec 8 (Part I: Thursday) and Dec 13 (Part II: Tuesday)
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Sec Page Minimum Homework Problems

4.1	269	17, 19, 26, 28, 29, 34, 36, 38, 40, 46, 47, 49, 52, 54, 56, 59, 64, 66, 68, 71, 72, 73, 74, 76
4.2	277	1 – 4, 7, 12, 13, 16, 25, 33, 36, 39, 41, 45, 48, 51, 52, 53, 54, 57, 58, 60, 61, 62
(H1) 4.3	286	3, 4, 11, 17, 19 (form a table: 21 – 30 and 37 – 44 from 4.4), 39, 40, 43, 45, 53, 55, 60, 61, 65 – 67, 72, 77, 79 – 88
4.4	296	11, 18, 25, 29, 32, 36, 48, 52, 55, 57, 66, 68, 69, 74, 78, 83, 89, 92, 95, 97, 101, 103, 106
4.5	306	8, 9, 12, 18, 19 – 23, 25, 27, 29, 31, 35, 45, 51, 63, 66, 73, 76, 78, 84, 88, 95 – 98 (read 100 – 102, Math 1 info, fyi)
4.6	317	15, 27, 32, 50, 53, 57, 58, 61, 71, 84, 86, 87
4.7	326	12, 15, 22, 23, 28, 29, 39, 40, 43, 46 – 52, 55, 59, 61, 63, 67, 70, 73, 75, 78, 83, 86, 90, 95, 108, 110 – 114, 121, 123, 137
4.8	336	13, 17, 24, 33, 37, 42, 43, 57, 59, 61, 62

5.1	355	9, 10, 12, 14, 17, 20, 24, 25, 28, 31, 34, 39, 43, 47, 48, 50, 52, 54, 56, 57, 59, 62, 63, 65 – 72, 74
5.2	362	1, 2, 16, 27 – 29, 36, 38, 47, 50 – 52, 57, 59, 62 – 64, 67 – 71, 74
(H2) 5.3	371	1 – 4, 8, 18, 20, 25, 35, 37, 44, 46, 52, 53, 60, 66, 67, 76, 77, 79, 81, 89, 99 – 102
5.4	379	8, 10, 21, 23, 35, 40, 41, 43, 50, 51, 53, 55, 63, 64, 68, 71, 74, 81 – 84, 86, 77
5.5	389	8, 12, 16, 19, 21, 26, 31, 35, 40, 43, 46, 51, 53, 57, 59, 64, 65, 68, 72, 77, 78

6.1	408	7, 17, 29, 31, 36, 46, 49, 50, 52, 55, 57 – 59
6.2	415	1, 2, 8, 9, 18, 32, 33, 35, 38, 43, 46, 51, 58, 61 – 63
(H3) 6.3	427	1 – 10, 12, 16 – 18, 20, 28, 30, 31, 36, 40, 43, 50, 53, 56, 57, 62, 63, 66, 71, 73, 75, 79, 81, 86, 89, 99, 103 – 107, 112
6.4	437	1 – 6, 9, 14, 15, 17, 21, 23, 25, 28, 30, 31, 34, 40, 43, 47, 52, 54, 57, 58, 60, 64, 71, 74, 84, 89, 90, 92
6.5	448	1 – 4, 7 – 9, 15, 18, 22, 23, 27, 33, 36, 37, 42, 43, 46, 48, 52 – 54, 59, 61, 63, 67, 73, 77, 79, 84, 87, 95, 95, 99, 101, 103, 106 – 109

10.7	745	13, 15, 20, 36, 38, 41, 46, 48, 58, 64, 69, 72 – 74, 76, 78, 79, 81, 87, 93, 95, odd (99 – 109 and 117 – 125), 129, 133
(H4) 10.8	753	7 – 12, 13, 15, 17, 19, 21, 25, 34, 39, 43, 45, 47, 52, 56, 57, 61, 64, 65, 67, 68, 71 – 73, 80

Note: Section 10.7 (Polar coordinates): We will discuss the coordinates in a polar system, the conversion between polar equations and rectangular equations, and sketch some graphs of some basic polar equations. In 10.8 (Graphs of Polar Equations), we will recognize graphs of various types of polar equations. All other polar properties, including Conics and in polar forms, and rotation of conics All other sections in Ch 10 (10.5, 10.6, and 10.9, etc) will be included in Math 43.

De Anza College – Fall Quarter 2016
Math 42 Tentative Schedule (subject to be changed as needed)

wk	Month	Monday	Tuesday	Wednesday	Thursday	HW/Quizzes/Test in this week
1	Sept	26 <i>Instruction Begins</i>	27 Greensheet 4.1 – 4.2	28	29 4.2 – 4.3	<i>Read material before each class Begin HW and study daily, and starts calculator practices</i>
2	Oct	3	4 4.3 – 4.4	5	6 4.5 – 4.6	Quiz 1 (Ch 4A: 4.1 – 4.4) Last day to add: Sat (10/8)
3	Oct	10	11 4.7 – 4.8	12	13 4.8	Quiz 2 (Ch 4B: 4.5 – 4.8) Last Day to drop with no record of Grade: Sun (10/9)
4	Oct	17	18 5.1 – 5.2	19	20 T1 5.3	T1 (Ch 4: 4.1 – 4.8) Last day to request pass/no pass: Friday (10/14)
5	Oct	24	25 5.4	26	27 5.4 – 5.5	Quiz 3 (Ch 5A: 5.1 – 5.3)
6	Oct/ Nov	31	1 5.5	2	3 6.1 – 6.2	Quiz 4 (Ch 5B: 5.3 – 5.5)
7	Nov	7	8 6.2 – 6.3	9	10 T2 6.3 – 6.4	T2 (Ch 5: 5.1 – 5.5)
8	Nov	14	15 6.4 – 6.5	16	17 6.5, 10.7	Quiz 5 (Ch 6: 6.1 – 6.5) Last Day to drop with a “W”: Friday (11/18)
9	Nov	21	22 T3 10.7	23	24 Thanksgiving Holiday	T3 (Ch 6) Thanksgiving Holiday Recess (Nov 24 – 27)
10	Nov/ Dec	28	29 10.8	30	1 10.8	
11	Dec	5	6 Review and Info About the Final Exam	7	8 Review Final Exam I	Quiz 6 (Ch 10: 10.1 – 10.8) Final Exam (Part I: multiple choices and graphs)
12	Dec	12	13 Final Exam II (1:45 pm – 3:45 pm)	14	15	Final Exam (all chapters)
Reminder:		6 Quizzes (drop one) Q1 (Ch 4A: 4.1 – 4.4) Q2 (Ch 4B: 4.5 – 4.8) Q3 (Ch 5A: 5.1 – 5.3) Q4 (Ch 5B: 5.3 – 5.5) Q5 (Ch 6: 6.1 – 6.5) Q6 (Ch 10: 10.7, 10.8)		3 Tests (drop one) T1 (Ch 4: 4.1 – 4.8) T2 (Ch 5: 5.1 – 5.5) T3 (Ch 6: 6.1 – 6.5)		a. 3 Tests <i>drop the lowest test score</i> b. 6 Quizzes <i>drop the lowest quiz score</i> c. Project (TBD) d. Final Exam <i>– Part I (Multiple Choices)</i> <i>– Part II (All other sections)</i>

* The First Day of Winter Quarter Classes: Jan 9, 2017