

De Anza College

MATH -051-(27)

Classroom: S54

Meets: Tu,Th 3:45-5:55pm

Instructor: R. Hamer

Phone: (408)-864-8319

Office: S43B

**TRIGONOMETRY**

**WINTER 2009**

**PREREQUISITES:** See schedule of classes.

**OFFICE LOCATION:** S43B, next to the entrance of Math Tutorial Center at S43.

**PHONE:** (408)-864-8319. Leave a message on my voice mail, clearly and s-l-o-w-l-y identifying your name and class section number. Do not call for an isolated one-day absence to a lecture meeting! Do call for test day emergency absence!

**MATERIAL NEEDED:**

"Trigonometry", by Lial et al, (new!) 9<sup>th</sup> edition.

TI-83+, or 84+, or 86 graphing calculator is required.

(No TI-89s or 92's or use of cell phone as calculator is allowed). Notebook, black ink 0.5 or 0.7mm felt-tip pen, 0.5mm mechanical pencil with HB lead, soft eraser, rectangular graph paper(4 or 5 squares/inch), polar graph paper, ruler, protractor, stapler.

**ATTENDANCE:** You are expected to attend all classes, arrive on time, participate actively, and stay for the entire class.

Role is taken promptly on scheduled starting time. When I call your name, if you do not respond, I will show you as being absent. If you arrive late, please sit down quietly at your regular seat. It is your responsibility to speak to me at the end of that same class period and ask me to change your "absent" into a "tardy". I can change this only that same day, not in the future. You are responsible to keep track of your absences and tardies. Attendance: Instructor may drop student with 3 absences. Two tardies equal one absence. Students may be dropped following a priority order based on a composite of: number and pattern of absences and tardies, inactivity, test score <70%, disciplinary action taken, missed test.

**LEAVING EARLY:** Class ends at scheduled time always. If you have need to leave early one day because of a pressing emergency, you need to let me know ahead of time, otherwise you will be shown as being absent for that day.

**INACTIVITY:** This course requires active participation daily. A student not having required class materials or not participating actively in class will be shown as "absent" for that day.

**DROPPING WITH "W":** If you want to drop with a "W" grade, you are responsible to process a DROP form no later than the deadline. If you simply stop attending class, you will probably get an "F".

**HOMEWORK:** Homework is to be done daily outside of class. Student is expected to put in 4 hrs of outside study for each class meeting. Homeworks will be picked up only during the first 5 minutes of the class period as announced in schedule. No late homeworks are accepted. Two HWs count as extra credit when all eight others have been handed in.

**TESTING:** There will be several exams as shown on schedule plus unannounced quizzes or in-class projects.

Note test dates! Student is responsible for being present at those dates. **NO MAKE-UP EXAMS.** Student is responsible to call in on exam day if insurmountable emergency should arise.

**FINAL EXAM:** Given only on date shown. **NO FINAL MAKEUP!**  
Missing the final results in an F course grade!

**GRADING (approximate):**

3 Tests, 25 pts each	A=90-100% of total score
1 Final, 30 pts	B=80-89%
Quizzes, 3 pts/question	C=70-79%
HW 2pts each	D=60-69%
	F=under 60%

You can calculate your own grade by using this formula:

$$\frac{(\text{your score})}{(\text{perfect score})} \times 100\% = \text{course score}$$

Office hours: MW 12:30-1:20pm,  
TTh 2:30-3:20pm  
or by appointment

Last day for "W": Saturday, February 29

Final Exam is given only on: **Tuesday, March 24**  
**4:00-6:00pm in room S54**

Students arriving late after 5:00 will not be admitted to exam.  
Students finishing exam early may not leave room before 5:15pm.

## **CLASSROOM RULES** R. Hamer, 2009

Mathematics is a challenging field of study requiring great concentration. In order for efficient instruction to take place, it is very important that the classroom provide the proper environment which offers emotional safety and freedom from distractions.

### **Communication:**

If you want to say something during my lecture, please get my attention first (raise your hand or say "question"), then speak out, otherwise I will need for you to repeat your question.

If you need to tell me something important regarding your class status (absences, conflicts, appointments, etc), please give it to me in writing (8 1/2x11") so I won't forget it!

### **The following are not allowed during class time:**

Talking (not even about Math!), using cell phone, passing notes, doing homework or outside activities, wearing earphones, using unauthorized calculator, ridicule or verbal abuse. Threats or physical abuse (no re-entry).

### **Disregarding instructions.**

1.-Student disregarding rules will be asked to leave classroom. Student must submit a request in writing asking to be re-admitted and may not re-enter without instructor's permission. A student who refuses to leave the room will be dropped from the class with an F and reported to school authorities for further action.

2.-Any second disciplinary incident will result in student being dropped from class with an F.

**CHEATING:** All work (HWs, projects, tests) is to be individual work only! Attempted cheating will result in an "F" course grade and being reported to the school authorities for all parties involved.

### **Electronic or optical Devices:**

Do not use a cell phone as a calculator in class at any time.

Leave all electronic gadgets and backpacks up front of room during a test.

Having a cell phone, camera, scanner, or any electro-optical device with you during a test, or an unauthorized calculator or unauthorized calculator programming, invalidates the test. This results in an "F" course grade and being reported to the school administration.

## **MATH 51 TRIGONOMETRY HOMEWORK ASSIGNMENTS (Lial 9e)**

No torn edges, single column only.

### **1.-Front page**

Upper left corner: staple and student seating (1-40) number.

Upper right corner: print Last and first name, Math course and section number, date the assignment is due.

Top Middle: book sections covered in this assignment (i.e. 4.1-4.5).

### **2.-Homework problems**

Fully identify each problem number (i.e. 4.1.3) inside left margin.

Use 0.5 or 0.7 mm black ink felt-tip pen for work, mechanical pencil with "HB" lead for sketches. Show all work to justify answer, put box around your final answers.

All graphs on 4 squares per inch graph paper, lines drawn with ruler. Label axes with variable names and scale marks. Smallest unit increment shown on graph is one square long.

### **3.-Separator sheet**

Insert a sheet of dark paper to separate homework from lecture notes.

**4.-Notes:** The previous week's two days of announcements, lecture notes and class work underneath.

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### **1.-Trigonometric Functions**

1.1 p.7 8,9,13,23,25,31,35,37,45,53,63,73,75,79,89,93,103,109,131.

1.2 p.16 3,5,11,15,23,45,47,53,57,61.

1.3 p.27 1,3,4,25-28,47,99,100,103.

1.4 p.37 3,5,19,21,24,26,31,35,36,61,62,65.

### **2.-Acute Angles and Right Triangles**

2.1 p.55 1,5-10,11,13,19,65,71.

2.2 p.63 1-6,11,13,17,21,37,45,61,69.

2.3 p.68 1-3,5,7,15,17,19,23,25,35,43,55,57,65.

2.4 p.78 9,11,19,35,39,41,43.

2.5 p.87 1-4,5,11,15,25,29,35.

### **3.-Radian Measure and Circular Functions**

3.1 p.106 1,3,5,7-14,25-29,63,67,83,85.

3.2 p.113 1,3,7,11,13,19,21,27,29.

3.3 p.126 1,3,7,9,11,29,33,45,55,61,63,79.

3.4 p.131 3,5,9,13,17,19,21,25,29,35,37,39.

### **4.-Graphs of the Circular Functions**

4.1 p.153 1-8,9,11,15,17,21,29,33,41,45,49,53.

4.2 p.164 1-12,15,17,21,23,27,31,39,57.

4.3 p.174 1-7,11,21,27,33,41.

4.4 p.183 1,3.

### **5.-Trigonometric Identities**

- 5.1 p.203 1-4,7,9,21-24,25,27,33-37,53,59,63.
- 5.2 p.212 1,3,5,13,15,23,25,27,35,37,93.
- 5.3 p.221 1-4,15,17,27,29,31,39,41,47.
- 5.4 p.229 1-8,23,29,33,41,57,73.
- 5.5 p.239 1-7,11,17,29,37,55,67.
- 5.6 p.245 None

### **6.-Inverse Circular Functions and Trigonometric Equations**

- 6.1 p.269 1-10,13,15,17,19,35,47,57,107.
- 6.2 p.278 1,3,5,7,11,13,19,45,53.
- 6.3 p.284 1,3,7,9,43.
- 6.4 p.290 None

### **7.-Applications and Vectors**

- 7.1 p.308 3,5,21,25,33,37.
- 7.2 p.317 1,5,7,9,13,15,35.
- 7.3 p.326 1,3,5,9,15,19,41.
- 7.4 p.341 1-19,23,25,29,33,37,43,47,55,59,63,71,75,77,85,87.
- 7.5 p.347 1,3,15,31.

### **8.-Complex Numbers, Polar graphs**

- 8,5 p.401 1,2,3,5,13,17,23,37-41,53.

Tu,Th 3:45pm, S54

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WINTER 2009

	Monday	Tuesday	Wednesday	Thursday	Friday
W1 Jan	5	6 Intro 1.1	7	8 1.2 1.3	9
W2 Jan	12	13 Hw1 1.4 Calculator	14	15 2.1 2.1	16
W3 Jan	19 MLK Holiday	20 Hw2 Activity	21	22 2.2 2.3	23
W4 Jan Feb	26	27 Hw3 2.4 2.5	28	29 Sum1 <b><u>TST</u></b> <b><u>CHS 1+2</u></b>	30
W5 Feb	2	3 Hw4 3.1 3.2	4	5 3.3 3.4	6
W6 Feb	9	10 Hw5 4.1 4.2	11	12 4.2 4.3 4.4?	13 Lincoln Holiday
W7 Feb	16 Washington Holiday	17 Hw6 Sum2 <b><u>TSTCHS 3+4</u></b>	18	19 5.1 5.2	20
W8 Feb	23	24 Hw7 5.3 5.4 5.5	25	26 Activity	27 LAST "W" (Saturday)
W9 March		32 Hw8,Sum3 <b><u>TST CH 5</u></b>	4	5 6.1 6.2	6
W10 March	9	10 Hw9 7.1 7.2	11	12 7.3 7.4	13
W11 March	16	17 (last)Hw10 7.4 7.5	18	19 8.5 8.5 Polar paper Sum4	20
W12 March	23	24 <b><u>FINAL EXAM</u></b> 4-6pm S54	25	26	27

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**Lial, Trigonometry, 9e**

**Tu,Th S54 3:45-5:55pm R.HAMER**