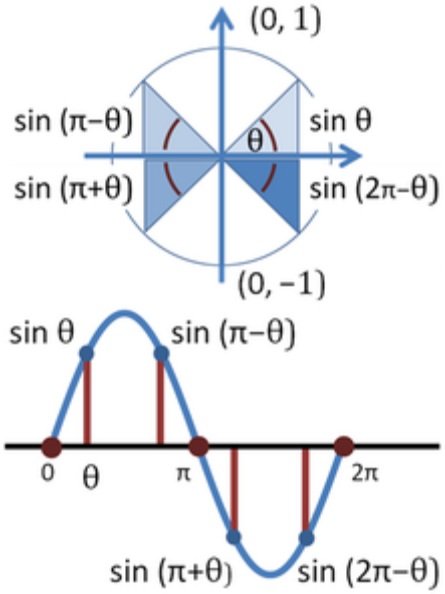
# *Math 100T*

*Transcendental Functions Module*

*Spring, 2011*




Trigonometry is a sine of the times. ~Author Unknown

Arithmetic! Algebra! Geometry! Grandiose trinity! Luminous triangle! Whoever has not known you is without sense!
Comte de Lautreamont

You, who wish to study great and wonderful things, who wonder about the movement of the stars, must read these theorems about triangles. Knowing these ideas will open the door to all of astronomy and to certain geometric problems.--Johann Regiomontanus

Math Module 100T – Transcendental Functions
Spring, 2011

Senior Lecturer: Mrs. Susan Riner
Office: 120B Pierce hall
Phone: 784-8316

Text: College Algebra and Trigonometry by Levitan, Kolman, Shapiro, 5th edition

Purpose: This six week module is designed to help students review skills necessary for successful completion of calculus, Math 110A. Math 100T will provide each student with an opportunity to increase his or her proficiency in and understanding of the basic concepts of trigonometric, exponential, and logarithmic functions..

Attendance: Students are expected to be on time and attend all classes and are responsible for all material covered in class as well as any changes made in the attached schedule regarding topics, homework, quizzes, and test dates. Attendance and consistent preparation for class will determine the success or failure the student realizes in this course. Missing classes, tests, assignments, etc. due to observance of religious holidays should be worked out in advance with the professor.

Homework: Some homework problems will be collected and graded but all homework problems are assigned to benefit you. You will need to study 2-3 hours outside of class for every hour spent in class.

Tutoring: Student tutors are scheduled for a limited amount of time per week in the afternoon and evening in the Mathematics Center in Pierce Hall. You may want to consult tutors if you are having trouble with homework problems. Tutoring schedules are posted on the Math Center web page.

Honor Code: **The Honor Code of Oxford College applies to all work submitted for credit. You will pledge with your signature that the work you submit for credit is yours and yours alone.**

Assessment Procedures: There will be two major tests, homework assignments, and problem sets.

Points will be distributed as follows:

| | |
|---|---|
| 2 Tests (100 points each) | 200 points |
| Homework Assignments | 50 points |
| Problem Sets | 150 points |
| Total | 400 points |

Grades will be assigned as follows:

| | |
|---|---|
| A: | 360-400 points |
| B: | 320-369 points |
| C: | 280-319 points |
| D: | 240-279 points |
| F: | Below 240 points |

100T -Topics

| | |
|---|---|
| 3/15, 3/17 | 7.1, 7.2, 7.3, 7.4: Unit Circle, Right Triangle Trigonometry |
| 3/22, 3/24 | 7.4, 7.5, 7.6: Graphing Trigonometric Functions |
| 3/29, 3/31 | 7.5, 7.6, 8.1: Graphing (cont.), Trigonometric Identities |
| | ****4/1 Friday, 2:00 p.m. Test 1** |
| 4/5, 4/7 | 8.1, 8.5: Trigonometric Identities, Solving Equations |
| 4/12, 4/14 | 6.2, 6.3: Exponential and Logarithmic Functions and Graphs |
| 4/19, 4/21 | 6.4, 6.5: Properties of Logarithmic Functions, Log/Exp Equations |
| 4/26 | Review |
| | ****5/2 Monday , 2:00 p.m. (final exam time) Test 2** |