

*Los Angeles Valley College*  
**Math 240**

*"Besides language and music, mathematics is one of the primary  
manifestations of the free creative power of the human mind."  
-- Hermann Weyl*

**1. Class Information**

**Semester:** Fall 2010

**Section #:** 1427

**Class Time:** TTh 8:00 -9:25 pm

**Classroom:** MS 105

**Website:** [www.lavcmath.com/shin](http://www.lavcmath.com/shin)

**Textbook:** Trigonometry, 9<sup>th</sup> Edition, M. Lial, J. Hornsby and D. Schneider

**Instructor:** Prof. Luz V. Shin

**Office:** MS 104F

**Phone #:** 818-947-2393

**Drop-in Hours:** MTWTh 12:30 – 2 pm

**Email:** [shinlv@lavc.edu](mailto:shinlv@lavc.edu)

**2. Course Information**

**Title:** Trigonometry

**Description:** This course covers trigonometric and inverse trigonometric functions: solving triangles, proving trigonometric identities, solving trigonometric equations, complex numbers including De Moivre's theorem, polar coordinates and graphing polar equations

**Prerequisites:** A grade of C or better in Math 120 and Math 125; or appropriate skill level demonstrated through the math placement process.

**Course Objectives:** Upon completion of this course, the students will:

- Calculate trigonometric functions given conditions.
- Solve trigonometric equations and inverse trigonometric equations.
- Solve triangles.
- Graph the trigonometric functions and transformations thereof.
- Solve problems involving circles or circular motion.
- Prove trigonometric identities
- Solve application problems involving vectors and triangles.
- Convert between the Cartesian and polar coordinate systems.
- Graph polar curves.
- Find roots and powers of complex numbers.

**Course Student Learning Outcomes:** Upon completion of this course:

- Students will be able to think analytically at a college level.
- Students will be able to think and read critically to solve trigonometric problems.

### 3. Course Requirements

**School Supplies:** The student is expected to bring the following to each class session:

- Textbook
- Scientific Calculator (available for loan for the semester)
- Notebook (3-ring binder or file folder) for notes and homework
- Pens, pencils and erasers
- 5 Testing booklets (greenbooks/bluebooks) for exams

**Homework and Group Work:** Refer to the assignment sheet provided for the session. Homework is assigned daily and questions discussed the next meeting. There is an option to do the homework online using MyMathLab (handout will be provided). Homework is due the next class meeting after it was assigned. No late homework will be accepted at any circumstance. Group Work will be given on a regular basis. Homework and Group Work combine for a total of 100 points. Mathematics is not a spectator sport, so you have to do the work!

**Exams:** There will be five exams including the finals; each will be out of 100 points. Each exam is free response and covers two chapters, except the final exam which is cumulative. Students are not allowed to use notes but calculators are permitted during exams. The tentative testing schedule is given in the timeline.

### 4. Class Policy

**Attendance:** REGULAR ATTENDANCE is very much encouraged! School policy on attendance is enforced. The instructor may exclude students who have excessive absences. There will be sign-in sheets that will be passed around each meeting. It is the student's responsibility to make sure that he/she signs in for his/her attendance.

**Withdrawals:** If you stop attending the class (or wish to drop a class), **you must drop the class yourself – officially** – by phone, Internet or through the Office of Admissions and Records. Failure to do so may result in a grade of "F" in the class. Please take note of important dates noted in the timeline.

**DSPS Students:** To make arrangements for special accommodations that have been recommended by DSPS for students with disabilities, please contact the instructor.

**Cell Phones and Text Messaging:** Please turn off or silent (not vibrate) all phones before coming to class. No text messaging, no MP3's, no ipods, no ipads, no computer, and no hand-held video games while class is in session. Class time is for learning mathematics, not for personal communication or entertainment.

**Cheating:** Any form of academic dishonesty will not be tolerated. If caught, you may be given a zero for that particular exam.

**Student Conduct:** Students are expected to adhere to all district policies as described in the LAVC Spring 2010 Schedule of Classes including attendance (p. 139), withdrawal from classes (p. 145), and Academic Standards and Grading Policies (p. 141-144).

## 5. Grading System

**Evaluation:** The total points earned will be computed out of a grand total of 600 points. No make-up exam will be given at any circumstance! If you miss an exam, a grade will be assigned from your final exam performance on the missed exam's coverage.\

➤ HW/GW	100 points
➤ Long Exams	400 points
➤ Final Exam	100 points

### **Grading Curve:**

➤	A	90 – 100	540 – 600 points
➤	B	80 – 89	480 – 539 points
➤	C	70 – 79	420 – 479 points
➤	D	55 – 69	330 – 419 points
➤	F	below 55	below 330 points

## 6. Tips for Success in this class

- Choose to attend all class periods on time and don't leave early. If you are absent on a day that a homework quiz or group work is given, you lose the points for that class work.
- Pay attention in class, participate in class discussions, and ask questions. The instructor regularly gives away tips for exams and quizzes, so make sure you take note of them.
- Do or attempt all homework not for the sake of just doing it, but trying to understand the concepts, learning them in the process. "Practice makes perfect" applies not only to music and sports, but also in mathematics. Be sure to schedule sufficient time to complete your assigned tasks before the next class period.
- Know how to get help if you need it.
  - Attend scheduled review sessions.
  - Consult instructor during posted drop-in hours.
  - Drop by the Math Lab (MS 106) for tutoring services.
- Organize your class materials, including homework assignments, graded quizzes and tests, notes and worked out review problems. These items will make valuable references when studying for upcoming tests and the final exam.

*"There is a famous formula, perhaps the most compact and famous of all formulas – developed by Euler from a discovery of De Moivre:  $e^{i\pi} + 1 = 0$ ... It appeals equally to the mystic, the scientist, the philosopher, the mathematician."  
-- Edward Kasner and James Newman*