Math 50 Trigonometry, 42593, BCC Rm 321, Th 1:30-3:20pm

Instructor: Wesley Jeh wjeh@peralta.edu

Prerequisite: Math 202 and 203 or 211D

Student Learning Outcomes

Representation: Represent relevant information in various mathematical or algorithmic forms. (conversion of words to mathematical symbols and graphs)

Calculation: Calculate accurately and comprehensively.

Interpretation: Interpret information presented in mathematical or algorithmic forms. (for example, interpretations of equations, graphs, diagrams, tables)

Application/Analysis: Draw appropriate conclusions based on the quantitative analysis of data, while recognizing the limits of this analysis. (problem solving)

Communication: Explain quantitative evidence and analysis. (conversion of mathematical symbols and graphs to words)

Objectives:

1. Functions and their graphs. Composition of functions. Inverse functions

2. Introduction to trigonometric functions using right triangles.

3. Trigonometric functions and their properties (unit circle approach). Graphing trigonometric functions

4. Application of trig functions

5. Identities of trigonometric functions

6. Inverse trig functions

7. Solving equations involving trig functions

8. Law of sine and law of cosine

9. Polar coordinates

10. Vectors and dot products

11. Complex plane and representation of complex numbers in trigonometric form. De Moivres Theorem

Homework:

To do the online homework assignment for this class, you will need to first register an account at https://myopenmath.com

After your registered your account, you may enroll in this course by using the following course ID and enrollment key:

Course ID: 14884 Enrollment Key: 42593

After you enrolled in this class you will be able to work on the online homework exercise. Work out the problems on paper first, then type in the correct answer.

Feel free to talk to me if you have any question about MyOpenMath.

Note: In doing the exercises in MyOpenMath, you may attempt each exercise five times. After five attempts, you will lose 10% of the total point for each additional incorrect attempt.

In Class Exercise:

During class I will assign problems for you to work in class in groups. This is a great time to

check that you understand how to do the work before you try to do the homework.

When you are working in a group, one way to tell if you really understand the material is to **try to explain the concepts to others**. If you did a problem and got the correct answer, try to explain exactly what you did to get the correct answer, and **why** you did that.

Grading:

Online Homework	40%
In Class Exercise	10%
Midterm	20%
Final	30%

Overall Percentage	Grade
$90 - 100$ %	A
$80 - 89$ %	B
$70 - 79$ %	C
$60 - 69$ %	D

Cheating:

Cheating is prohibited. Anyone who is caught cheating during any test will receive an automatic 0 for the test.