Trigonometry

Textbook: Trigonometry, 9th Edition
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Course Description:

This course is an advanced math course that teaches trigonometry functions, identities and equations with practical application. The course is expanded to include analytic geometry, complex numbers, and exponential and logarithmic functions and equations.

tendance login requirements: Students must log into class at the scheduled class time and remain until class ends. Student must attend class 165 days per year.

Homework: Homework assignments will be given at the discretion of the instructor.

Class Participation: All class participation will be online. Instructor will give written feedback on progress and acceptable work directly to student online.

Course Grade Policy:

90-100 average = A

80-89 average = B

70-79 average = c

60-69 average =D

Below 60 = F

Quizzes/Exams: There will be a quiz after each unit of study. You will have two opportunities to pass the test with a grade of 60. Mid-Term and Final Exams will be counted twice in grade averaging.

Semester I

Chapter 1

Unit 1.1 Radian and Degree Measure

Unit 1.1 Quiz

Unit 1.2 Trigonometric Functions: The Unit Circle

Unit 1.2 Quiz

Unit 1.3 Right Triangle Trigonometry

Unit 1.3 Quiz

Unit 1.4 Trigonometric Functions of Any Angle

Unit 1.4 Quiz

Unit 1.5 Graphs of Sine and Cosine Functions

Unit 1.5 Quiz

Unit 1.6 Graphs and Other Trigonometric Functions

Unit 1.6 Quiz

Unit 1.7 Inverse Trigonometric Functions

Unit 1.7 Quiz

Unit 1. 8 Applications and Models

Unit 1.8 Quiz

Chapter 2
Analytic Trigonometry

Unit 2.1 Using Fundamental Identities

Unit 2.1 Quiz

Unit 2.2 Solving Trigonometric Equations

Unit 2.2 Quiz

Unit 2.3 Verifying Trigonometric Identities

Unit 2.3 Quiz

Unit 2.4 Sum and Difference Formulas

Unit 2.4 Quiz

Unit 2.5 Multiple -Angle and Product-to-Sum Formulas

Unit 2.5 Quiz

Chapter 3

Additional Topics in Trigonometry

Unit 3.1 Law of Sins

Unit 3.1 Quiz

Unit 3.2 Law of Cosines

Unit 3.2 Quiz

Unit 3.3 Vectors in the Plane

Unit 3.3 Quiz

Unit 3.4 Vectors and Dot Products

Unit 3.4 Quiz

Mid-Term Exam

Semester II

Chapter 4
Complex Numbers

Unit 4.1 Complex Numbers

Unit 4.1 Quiz

Unit 4.2 Complex Solutions of Equations

Unit 4.2 Quiz

Unit 4.3 Trigonometric form of a complex Number

Unit 4.3 Quiz

Unit 4.4 DeMoivre's Theorem

Unit 4.4 Quiz

Chapter 5
Exponential and Logarithmic Functions

Unit 5.1 Exponential Functions and Their Graphs

Unit 5.1 Quiz

Unit 5.2 Logarithmic Functions and Their Graphs

Unit 5.2 Quiz

Unit 5.3 Properties of Logarithms

Unit 5.3 Quiz

Unit 5.4 Exponential and Logarithmic Equations

Unit 5.4 Quiz

Unit 5.5 Exponential and Logarithmic Models

Unit 5.5 Quiz

Chapter 6
Exponential and Logarithmic Equations

Unit 6.1 Lines

Unit 6.1 Quiz

Unit 6.2 Introduction to Conics Parabolas

Unit 6.2 Quiz

Unit 6.3 Ellipses

Unit 6.3 Quiz

Unit 6.4 Hyoerbikas

Unit 6.4 Quiz

Unit 6.5 Rotation of Conics

Unit 6.5 Quiz

Unit 6.6 Parametric Equations

Unit 6.6 Quiz

Unit 6.7 Polar Coordinates

Unit 6.7 Quiz

Unit 6.8 Graphs of Polar Equations

Unit 6.8 Quiz

Unit 6.9 Polar Equations of Comics

Unit 6.9 Quiz

Final Exam