

Curriculum Map: Advanced Trigonometry

Course: ADV TRIGONOMETRY Sub-topic: Trigonometry

Grade(s): 10 to 12

Course Description: This advanced level course will provide a faster-paced, more rigorous course-work, and deeper study of the same content offered in the Academic Trigonometry course including the study of triangles and the functions formed by the ratio of a right triangle embedded in a circle of radius one. Topics covered in this course include trigonometric functions, identities, and applications of trigonometric functions, exponential functions, logarithmic functions, and conic sections. This course has a strong emphasis on the use of technology with the learning of mathematics. This course is recommended for all college-bound students and is required for Honors Calculus.

Unit: Unit 0 - Introduction, Syllabus

Topic: 0.1 Syllabus

Minutes for Topic: 86

Topic: 0.2 Required Elements (Non-negotiables)

Minutes for Topic: 86

Unit: Unit 1 - Review of Previously Learned Skills

Topic: 1.1 Geometry Concepts

Minutes for Topic: 86

Topic: 1.2 Graphing, Intercepts, Symmetry

Topic: 1.3 Functions

Topic: 1.4 Review and Test

Minutes for Topic: 172

Unit: Unit 2 - Trigonometric Functions

Topic: 2.1 Angles and Their Measure

Topic: 2.2 Right Triangle Trigonometry

Topic: 2.3 Values of Trigonometric Functions

Topic: 2.4 Trigonometric Functions of General Angles

Topic: 2.5 Unit Circle

Topic: 2.6 Review and Test

Unit: Unit 3 - Graphing Trig Functions

Topic: 3.1 Graphs of Sine and Cosine Functions

Topic: 3.2 Graphs of Tangent, Cotangent, Cosecant, and Secant

Topic: 3.3 Writing Equations from Graphs

Topic: 3.4 Review and Test

Unit: Unit 4 - Analytic Trigonometry

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Unit: Unit 5 - Applications of Trigonometry

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Unit: Unit 6 - Exponential and Logarithmic Functions

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Unit: Unit 7 - IF TIME PERMITS - Analytic Geometry

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Unit: Unit 8 - Review and Final Exam

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