

Trigonometric Functions Lesson Objectives

Graphs of Trigonometric Functions Lesson

Graph trigonometric functions on the coordinate plane using a table of values

Domain and Range of Trigonometric Functions Lesson

Determine the domain and range of trigonometric functions

Behavior of Trigonometric Functions Lesson

Describe the behavior of the trigonometric functions, including periodicity, amplitude, zeroes, asymptotes, and symmetries

Use periodic and even and odd identities to find values of trigonometric functions

Properties of Trigonometric Functions Lesson

Identify and interpret amplitude, frequency, period, and vertical and phase shift

Graphing Transformations of Trigonometric Functions Lesson

Graph transformations of trigonometric functions

Compare and contrast characteristics of trigonometric functions with transformations of other families of functions

Writing Equations of Trigonometric Functions Lesson

Write the equation of a trigonometric function by identifying the properties and behavior of its graph

Modeling with Trigonometric Functions Lesson

Write and graph a trigonometric function that accurately models a real-world scenario

Inverse Trigonometric Functions Lesson

Use domain restriction to make trigonometric functions invertible

Graph inverse trigonometric functions on the coordinate plane
Evaluate inverse trigonometric functions at real-number values

Composition of Trigonometric Functions Lesson

Compose two given trigonometric functions
Use composition of functions to verify inverse trigonometric functions

Applications of Trigonometric Functions Lesson

Solve real-world problems with trigonometric functions