

Grade 11

Distance Learning Module 5: Week of: 4/27th - May 1st

Graphing Trigonometric Functions

Mathematics: Pre-Calculus Level 2 - Modified from [Unit D - Trigonometry](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Making one-to-one functions of sin and cos and tan by restricting their domains,

Vocabulary: arcsin, arccos, arctan, restricted domain

Skills: Evaluating inverse trig expressions and evaluating composition functions with trig and inverse trig functions

Expectations:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Inverse trigonometry - restricting the domain - sin and cos (LIVE class)	Class notes Khan video: Intro to arcsin Khan video: Intro to arccos Khan video: Restricting the domain	Textbook
Tuesday: Inverse tan and practice	Class notes Khan video: Intro to arctan Khan video: Restricting the domain for tan	Textbook
Wednesday: review of inverse trig functions	Class notes Khan material: review of inverse trig	Khan practice: inverse trig
Thursday: composition functions, i.e., $\sin(\arccos(.5))$ (LIVE class)	Class notes	Textbook
Friday: Review of trig	Class notes	Cumulative assignment

Week criteria for success (attach student checklists or rubrics):

Students will be able to

- Create one-to-one functions for sine, cosine, and tangent by restricting the domain
- Evaluate inverse trig expressions
- Evaluate composition functions with trig and inverse trig expressions

Supportive resources and tutorials for the week (plans for re-teaching):

- Office Hours
- Textbook
- Video on composition functions with inverse trig
- Notes
- Varsity Tutor: Inverse Trig Functions
- The Math Page: Inverse Trig Functions