

Grade 10

Distance Learning Module 10: Week of: June 8th – June 12th

Analytic Trigonometry

Algebra 2 Level 1 - Modified from [Unit 7 - Trigonometry](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Trigonometric identities, trig functions of sums and differences of angles, inverse trig functions

Vocabulary: identities, arcsin, arccos, inverse trig

Skills: proving trig identities, evaluating trig functions of sums and differences of angles, evaluating inverse trig functions

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Proving trig identities	LIVE class Smart Notes Video: tips to verifying identities	Textbook Assignment
Tuesday: Sum and difference identities for sine and cosine	LIVE class Smart Notes Sum and Difference Identities for Cosine Sum and Difference Identities for Sine	Textbook Assignment
Wednesday: Double angle identities	Office hours Double Angle Identities for Sine and Cosine	Textbook assignment
Thursday: Inverse trig functions for sine and cosine	LIVE class Smart Notes	Testbook assignment

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
	Khan video: Intro to arcsin Khan video: Intro to arccos Khan video: Restricting the domain	
Friday: Review	Office hours Smart Notes	Graded assessment

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

Students will be able to

- Prove trigonometric identities
- Calculate exact trig values for angles, using sum and difference formulas
- Calculate inverse trig functions

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

- Office Hours
- Textbook
- SmartNotes
- Khan video: proof of Pythagorean identity
- Mysecretmathtutor video - proving trig identities