

Grade 11

Distance Learning Module3: Week of: 4/13 - 4/17

Properties of the Trigonometric Functions

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

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Properties of the trigonometric functions, the periodic properties of the trig functions, the trig fundamental identities,

Vocabulary: period, identities, cofunction

Skills: identifying if a trig function is odd or even or neither, using trig identities to simplify expression and/or solve equations,

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Domain, range, and period of trigonometric functions	LIVE Instruction Smart Notes	Textbook Solutions (Page# 429, 2-16 even numbers)
Tuesday: Signs of the trigonometric functions	Video Tutorial (Math Tutor): Signs of trigonometric Functions	Textbook Solutions (Page# 429 Ex: 18, 22, 24, 25, 26, 28)
Wednesday: Fundamental identities, Even Odd Properties	Video Tutorial : Reciprocal and Quotient Identities Pythagorean Identities	Textbook Solutions (Page# 429 -430 Ex: 45-77 eoo (every other odd)
Thursday: Right triangle trig and complementary angles	LIVE Instruction Smart Notes	Textbook Solutions (Page# 438 Ex: 48, 50, 52, 54, 57, 58)
Friday: Applications and Review	LIVE Instruction Smart Notes	Review Packet Solutions

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

Students will be able to

- explain and use the relationship between the sine and cosine of complementary angles
- apply trigonometric identities

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

- Office Hours
- Textbook
- Reciprocal Identities
- Reciprocal Identities
- Fundamental Identities
- Even-Odd Identities Video Tutorial