Grade 11

Distance Learning Module2: Unit Circle

Week of: 4/6 - 4/10

**Mathematics:** Pre-Calculus Level 2 - *Modified from Unit D - Trigonometry* 

**Targeted Goals from Stage 1: Desired Results** 

Content Knowledge: unit circle definitions of the six trig functions, there are patterns within values of trig functions in the unit circle,

Vocabulary: coterminal, unit circle, reference angle

**Skills:** finding trig functions on the unit circle of special angles using points

## **Expectation:**

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Introduction to Unit Circle	Video Tutorial (Khan) : Intro to Unit Circle	Khan Practice: Unit Circle
	SmartNotes: Unit Circle	Textbook Practice Solution Picture:
		Page# 417, Ex: 1 & 5
Tuesday: Defining six trig ratios	Video Tutorial (Khan): Ratios of Trig Functions	Khan Practice: Trig Unit Circle Review
	SmartNotes: Unit Circle	
	Practice Worksheet: Exact Trig Values of	Picture of students worksheet solutions
	Special Angles	
Wednesday: Completing Unit Circle	LIVE Instruction	Textbook Practice Solution Picture:
	SmartNotes: Unit Circle	Page# 417, Ex: 11 - 29 odd
Thursday: Reference Angles, Finding Trig	Live Instructions	Textbook Practice Solution Picture: Page# 417
Values of non-acute angles	SmartNotes: Unit Circle	Ex: 33, 35

Friday: No School

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

## Students will be able to

- use the unit circle to express the values of sine, cosine, and tangent for pi x, pi + x, and 2pi x in terms of their values for x, where x is any real number,
- Use the unit circle to explain symmetry,

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

- Textbook
- Unit Circle Tutorial YouTube Video
- Office Hours