

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 SmartNotes: Unit Circle	Khan Practice: Unit Circle Textbook Practice Solution Picture: Page# 417, Ex: 1 & 5
Tuesday: Defining six trig ratios	Video Tutorial (Khan): Ratios of Trig Functions SmartNotes: Unit Circle Practice Worksheet: Exact Trig Values of Special Angles	Khan Practice: Trig Unit Circle Review Picture of students worksheet solutions
Wednesday: Completing Unit Circle	LIVE Instruction SmartNotes: Unit Circle	Textbook Practice Solution Picture: Page# 417, Ex: 11 - 29 odd
Thursday: Reference Angles, Finding Trig Values of non-acute angles	Live Instructions SmartNotes: Unit Circle	Textbook Practice Solution Picture: Page# 417 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 $2\pi - x$ 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