Grade 11
Distance Learning Module 5: Week of: 4/20th - 4/24th
Graphing Trigonometric Functions

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

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Domain, range, and form of sinusoidal functions

Vocabulary: period, amplitude, phase, asymptote, domain, range

Skills: Graphing sine, cosine, and tangent, as well as transformations of sine and cosine

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday:Graphing the sine and cosine functions	Video: Graph of sine Video: Graph of Cosine Notes	Textbook: page 450 #1-10 Submit a picture of your work
Tuesday: Graphing the tangent function	Video: Graph of Tangent SmartBoard notes	Textbook: page 450 # 11,19 Submit a picture of your work
Wednesday: Features of sinusoidal functions: amplitude, period, phase	Video: features of sinusoidal functions SmartBoard notes	Khan Academy practice midline Khan Academy practice amplitude Khan Academy Practice period
Thursday:Transformations of sine and cosine, using toolkit (A, B, C, D)	Notes - using A, B, C, D Supportive videos listed below	Transformations worksheet
Friday: Desmos activity	Desmos Marbleslides:Periodics	Teacher view

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

Students will be able to

- Graph sine, cosine, and tangent functions
- Identify the domain and range of sine, cosine and tangent
- Identify the amplitude, phase, and period of sine and cosine functions
- Graph transformations of sine and cosine functions

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

- Office Hours
- Textbook
- Khan Academy video:vertical stretch and horizontal reflections
- Khan Academy video: vertical and horizontal stretches
- Midline, amplitude, and period review
- SmartBoard notes