

Grade 10

Distance Learning Module 9: Week of: 6/1/2020-6/5/2020

Graphing Trigonometric Functions

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

### Targeted Goals from Stage 1: Desired Results

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

**Vocabulary:** period, amplitude, phase, asymptote

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

**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 Assignment
Tuesday: Graphing the tangent function	Video: Graph of Tangent SmartBoard notes	Textbook Assignment
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