

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