

Grade 11

Distance Learning Module 6: Week of: May 11<sup>th</sup> – May 15<sup>th</sup>

Proving Trigonometric Identities

**Pre-Calculus Level 2 - Modified from [Unit D - Trigonometry](#)**

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

**Content Knowledge:** Pythagorean, complementary, reciprocal, even-odd identities in trig

**Vocabulary:** identity, complements, reciprocals, even and odd functions

**Skills:** Proving trigonometric identities

**Expectations:**

<b>Description of Task (s):</b>	<b>Resources and Materials:</b>	<b>Daily Checks (Return to Google Classroom or snapshots from a cell phone)</b>
Monday: Trigonometric identities - defining identity, using the Pythagorean identity	Khan video: proof of Pythagorean identity Khan video: using the Pythagorean identity	Khan academy practice Textbook
Tuesday: Other identities - derivations of Pythagorean, reciprocal, complementary	Class notes Video: tips to verifying identities	Textbook problems
Wednesday: Identity practice	Live Session Class notes	Textbook problems
Thursday: Even/odd identities - symmetry	Khan video: symmetry and identities Khan video: rotation and identities	Textbook problems
Friday: Review of identities	Live Session Class notes	Textbook problems

**Week criteria for success:**

Students will be able to:

- Prove trigonometric identities using the Pythagorean, complementary angles, reciprocal functions, and even odd relationships

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

- Office Hours
- Textbook
- Mysecretmathtutor video - proving trig identities
- SmartBoard Notes
- Extra Practice Packets