Grade 10,11
Distance Learning Module 10: Week of: June 8th – June 12th

Precalculus Honors - *Modified from Unit F - Topics in Analytic Geometry*

Targeted Goals from Stage 1: Desired Results

Content Knowledge: The conic sections are all described by a loci of points satisfying a geometric property

Vocabulary: Focus, Directrix, Ellipse, Vertices, Major Axis, Minor Axis, Eccentricity, Hyperbola, Transverse Axis, Asymptotes

Skills:
- analyzing the equations for the conic sections
- determining equations for the conic sections

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Hyperbolas	Khan Academy video: Intro to hyperbolas Khan Academy video: Vertices & direction of a hyperbola Khan Academy video: Vertices & direction of a hyperbola (example 2)	Khan Academy practice: Vertices & direction of a hyperbola
Tuesday: Check-in	Virtual class meeting	Review concepts and answer questions
Wednesday: Hyperbolas	Khan Academy video: Graphing hyperbolas Khan Academy video: Foci of a hyperbola from equation Khan Academy video: Proof of the hyperbola	Khan Academy practice: Foci of a hyperbola from equation Khan Academy practice: Equation of a hyperbola from features

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
	foci formula	
Thursday: Hyperbolas	Khan Academy video: Hyperbolas not centered at the origin	Khan Academy : Quiz 3 Textbook p. 760, #1-37 eoo
Friday: Check-in	Virtual Class meeting	Review concepts and answer questions

Week criteria for success (attach student checklists or rubrics): Students will be able to determine the elements of an ellipse or hyperbola from its equation and write the equation of an ellipse or hyperbola from its characteristics.

Supportive resources and tutorials for the week (plans for re-teaching):   Khan Academy, Precalculus with Limits by Larson and Hostetler, virtual class meetings