

Grade 10-11

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

Pre-Calculus 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: Ellipses	Khan Academy video: Intro to Ellipses	Khan Academy practice: Graph & features of ellipses Khan Academy practice: Center and radii of ellipses from equation
Tuesday: Check-in Ellipses and their equations	Virtual Class meeting Khan Academy video: Ellipse standard equation from graph Khan Academy video: Ellipse graph from standard equation Khan Academy: Ellipse features review Khan Academy: Ellipse equation review	Review assignments and any problems that the students are experiencing Khan Academy practice: Ellipse standard equation & graph

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Wednesday: Practice	Read section 10.3 of the textbook.	Textbook p. 750, #1-29 eoo
Thursday: Foci of an ellipse	Khan Academy video: Foci of an ellipse from equation Khan Academy: Ellipse foci review	Khan Academy practice: Foci of an ellipse from radii Khan Academy practice: Foci of an ellipse from equation Khan Academy practice: Equation of an ellipse from features
Friday: Check-in	Virtual Class meeting Review section 10.3 of the textbook.	Review assignments and any problems that the students are experiencing Textbook p. 751, #35-53 odd Khan Academy: Quiz 2

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