

VILLA VICTORIA ACADEMY
HONORS PRECALCULUS CURRICULUM
2020-2021

QUARTER 1:

- Sequences & Series and Applications
- Polynomial Functions
- Rational Functions
- Inequalities
- Functions
- Exponential & Logarithmic Functions and Applications
- Analyzing Functions
- Library of Functions and Graphing Techniques
- Introduction to Trigonometry

QUARTER 2:

- Trigonometry Relationships
- Trigonometric Identities & Properties
- Special Angle Values
- Evaluating Trigonometric Functions & Relations
- Graph of 6 Trigonometric Functions
- Trigonometric Equations
- Graph of 6 Inverse Trigonometric Functions
- Evaluating Inverse Trigonometric Functions and Relations

QUARTER 3:

- Solving Triangles using Trigonometry
- Law of Sines and Law of Cosines
- Area of Triangles Using Trigonometry
- Mathematical Models (Maximums and Minimums)

QUARTER 4:

- Polar Coordinates and Polar Graphs
- Complex Numbers in Polar Form
- Operations with Complex Numbers in Polar Form
- Parametric Equations and Graphing
- Matrices