VILLA VICTORIA ACADEMY HONORS PRE-CALCULUS COURSE DESCRIPTION 2020-2021

This course is designed to provide the advanced student the foundation in algebra, trigonometry and analytic geometry in preparation for calculus. The student explores the properties, the graphs, and the operations with the following functions: polynomials, rational, irrational, absolute value, exponential, logarithmic, greatest integer, piece-wise-defined, trigonometric and their inverses. These explorations will include the following areas of study: equations, inequalities, compositions, analytic trigonometry, systems, matrices, conics, sequences, series, vectors, complex numbers, polar coordinates, parametric equations, combinatorics, probability and an introduction to limits and derivatives.