



ALLEN ACADEMY

Pre-Calculus 2017-2018		
First Trimester Objectives:	Second Trimester Objectives:	Third Trimester Objectives:
- To merge the skills from Algebra and Geometry into a unified function analysis approach to mathematics - To define functions, describe characteristics of functions, translate among verbal, numerical, graphical, and symbolic representations of functions	- To encompass all previous math knowledge and expand in addition to adding new concepts such as trigonometry in order to achieve a higher level of thinking - To use functions, including trig, and their properties to model and solve real-life problems and situations	- To continue previous objectives and resolve many math-related problems encountered in life - To prepare students for the rigorous approach used in calculus to unify and reinforce concepts previously presented
Topics Covered:	Topics Covered:	Topics Covered:
- Functions(general) - Quadratic, Polynomial, and Rational Functions - Exponential and Logarithmic functions	- Introduction to circle trigonometry - Triangle Trigonometry - Graphing trig functions including applications and models - Additional trig including Law of Sines, Law of Cosines, and vectors	- Trigonometric inverses, identities, and equations - Conic Sections - Parametric equations - Polar coordinates and equations
Instructional Resources:		
<ul style="list-style-type: none">• Online Learning Platform: Khan Academy• Textbook: <i>Pre-Calculus with Limits</i>		