

Planned Course: Honors Pre-Calculus	Course Number: M310H	Department: Math	
Unit: Analytical Trigonometry (6)	Grade Level: 10-12		
Estimated Time:	Level/Track: Honors	Date Approved: August 26, 2019	
PA Academic Standards	*Core Concepts (in question format) ● Skills/Knowledge	Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities)	Assessments (include types and topics)

<p>PA Core Standards: CC.2.1.HS.C.7 Apply radian measure of an angle and the unit circle to analyze trigonometric functions. CC.2.2.HS.C.8 Choose trigonometric functions to model periodic phenomena and describe the properties of graphs. CC.2.2.HS.C.9 Prove the Pythagorean Identity and use it to calculate trigonometric ratios. CC.2.2.HS.D.8 Apply inverse operations to solve equations or formulas for a given variable. CC.2.2.HS.D.10 Represent, solve and interpret equations/inequalities and systems of equations/inequalities algebraically and graphically.</p>	<p>▶How can we use trigonometric identities to solve trigonometric equations?</p> <ul style="list-style-type: none"> ● Use the fundamental trigonometric identities to simplify and rewrite trigonometric expressions. ● Verify trigonometric identities. ● Use standard algebraic techniques and inverse trigonometric functions to solve trigonometric equations. ● Use sum and difference formulas to evaluate trigonometric functions, verify identities and solve trigonometric equations. ● Use multiple-angle and product-to-sum formulas to evaluate trigonometric functions, verify identities and solve trigonometric 	<p>▶Warm up problems ▶Repeated Calculation worksheets ▶Text book exercises ▶WebAssign Activities</p>	<p>▶Quizzes prepared by teacher ▶Summative Unit test ▶Graded assignments ▶Formative Assessments</p> <ul style="list-style-type: none"> ● daily homework ● classwork ● questioning ● exit tickets
---	--	---	---

Planned Course: Honors Pre-Calculus	Course Number: M310H	Department: Math
Unit: Analytical Trigonometry (6)	Grade Level: 10-12	
Estimated Time:	Level/Track: Honors	Date Approved: August 26, 2019

PA Academic Standards	*Core Concepts (in question format)	Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities)	Assessments (include types and topics)
------------------------------	--	---	---

	<p>equations.</p> <ul style="list-style-type: none"> ● Use the Law of Sines to solve and find areas of oblique triangles. ● Use the Law of Cosines to solve oblique triangles. ● Use Heron's Formula to find the area of a triangle. 		
--	---	--	--