

Planned Course: Honors Pre-Calculus		Course Number: M310H		Department: Math	
Unit: Graphs of Trigonometric Functions		Grade Level: 10-12			
(4)		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>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.4 Interpret the effects transformations have on functions and find the inverses of functions.</p>	<p>▶What types of real-life data can be modeled using sinusoidal functions?</p> <ul style="list-style-type: none"> ● Sketch the graphs of basic sine and cosine functions. ● Use amplitude and period to sketch the graphs of sine and cosine functions. ● Use sine and cosine functions to model real-life phenomena. ● Sketch the graphs of secant, cosecant, tangent and cotangent functions. ● Evaluate inverse trigonometric functions. ● Evaluate the composition of trigonometric functions. ● Evaluate the composition of trigonometric functions as an algebraic 	<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
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		<ul style="list-style-type: none"> Skills/Knowledge 			

	<p>expression in terms of x.</p> <ul style="list-style-type: none"> Solve real-world problems involving right triangles. Solve real-world problems involving harmonic motion. 		
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