

Planned Course: Honors Pre-Calculus	Course Number: M310H	Department: Math	
Unit: Trigonometric Functions (3)	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.2.3.HS.A.7 Apply trigonometric ratios to solve problems involving right triangles. CC.2.2.HS.C.8 Choose trigonometric functions to model periodic phenomena and describe the properties of graphs.</p>	<p>▶How do we describe angles and what methods are used to evaluate trigonometric functions of any angle?</p> <ul style="list-style-type: none"> • Use radian and degree measure to describe angles. • Use radian measure to find arc length, area of a sector, angular and linear velocity. • Evaluate trigonometric functions using the Unit Circle. • Evaluate trigonometric functions using the right triangle definitions. • Use reference angles to evaluate trigonometric functions of any angle. 	<p>▶Warm up problems ▶Repeated Calculation worksheets ▶Text book exercises ▶WebAssign Activities ▶"Nerd Study" YouTube videos ▶Unit Circle Mazes ▶Triples Activities</p>	<p>▶Quizzes prepared by teacher ▶Summative Unit test divided to non-calculator and graphing calculator sections ▶Graded assignments ▶Formative Assessments</p> <ul style="list-style-type: none"> • daily homework • classwork • questioning • exit tickets
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