

Planned Course: Honors Pre-Calculus	Course Number: M310H	Department: Math	
Unit: Polynomial/Rational Functions (2)	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.F.1 Apply and extend the properties of exponents to solve problems with rational exponents. CC.2.2.HS.D.3 Extend the knowledge of arithmetic operations and apply to polynomials. CC.2.2.HS.D.4 Understand the relationship between zeros and factors of polynomials to make generalizations about functions and their graphs. CC.2.2.HS.D.6 Extend the knowledge of rational functions to rewrite in equivalent forms.</p>	<p>▶How do the key characteristics of rational functions differ from polynomial and radical functions?</p> <ul style="list-style-type: none"> ● Use the sketch of a power function to identify it as constant, linear, quadratic, cubic, quartic or quintic. ● Rewrite power functions with rational exponents in radical form. ● Rewrite power functions with negative exponents and identify their discontinuities. ● Use skills of algebra to simplify rational functions and identify the intercepts, vertical asymptotes and holes in their graphs. ● Use rules of end behavior to find horizontal asymptotes of rational functions. 	<p>▶Warm up exercise ▶Graphing Flip-Book ▶Text book exercises ▶WebAssign Activities ▶Teacher prepared video lessons/reteaching lessons</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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		<ul style="list-style-type: none"> Skills/Knowledge 			

	<ul style="list-style-type: none"> Use long division and synthetic division to identify slant asymptotes of rational functions. 		
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