

Planned Course: Honors Algebra II	Course Number: M305H	Department: Mathematics	
Unit: Polynomial Functions	Grade Level: 8-12	Date Approved: 08/21/01	
Estimated Time: 22 days	Level/Track: Honors		
Academic Standards	Skills/Knowledge	Activities	Assessment

<p>2.1.8 Numbers, Number Systems and Number Relationships</p> <p>B. Simplify numerical expressions involving exponents, scientific notation, and using order of operations.</p> <p>E. Simplify and expand algebraic expressions using exponential forms.</p>	<p>The student will be able to add, subtract and multiply polynomials.</p>	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in the book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Quizzes • Graded homework • Graded class work • Unit test
<p>2.5.11 Mathematical Problem Solving and Communication</p> <p>A. Develop and use computation concepts, operations and procedures on real numbers in problem-solving situations.</p> <p>2.8.11 Algebra and Functions</p> <p>D. Formulate expressions, equations, inequalities, systems of equations, system of inequalities, and matrices to model routine</p>	<p>The student will be able to use polynomial operations to solve real-life problems.</p>	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in the book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Quizzes • Graded homework • Graded class work • Unit test

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and non-routine problem situations.			
2.8.11 Algebra and Functions Q. Represent functional relationships in tables, charts and graphs. R. Create and interpret functional models.	The student will be able to sketch the graph of a polynomial function.	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in the book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Quizzes • Graded homework • Graded class work • Unit test
2.8.11 Algebra and Functions N. Solve linear, quadratic and exponential equations both symbolically and graphically.	The student will be able to factor polynomial expressions and equations.	<ul style="list-style-type: none"> • Overhead transparencies • Chalkboard examples • Exercises in the book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Quizzes • Graded homework • Graded class work • Unit test
2.5.11 Mathematical Problem Solving and Communication A. Develop and use	The student will be able to	<ul style="list-style-type: none"> • Overhead transparencies 	<ul style="list-style-type: none"> • Classroom observation

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<p>computation concepts, operations and procedures on real numbers in problem-solving situations.</p> <p>2.8.11 Algebra and Functions</p> <p>S. Analyze properties and relationships of functions (e.g., linear, polynomial, rational, trigonometric, exponential and logarithmic).</p>	<p>look at the zeros of a polynomial function, factors of polynomials, and solutions of polynomial equations to see their connections.</p>	<ul style="list-style-type: none"> • Chalkboard examples • Exercises in the book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Quizzes • Graded homework • Graded class work • Unit test
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