

Planned Course: Honors Algebra II	Course Number: M305H	Department: Mathematics	
Unit: Matrices and Determinants	Grade Level: 8-12	Date Approved: 08/21/01	
Estimated Time: 15 days	Level/Track: Honors		
Academic Standards	Skills/Knowledge	Activities	Assessment

<p>2.8.11 Algebra and Functions</p> <p>D. Formulate expressions, equations, inequalities, systems of equations, systems of inequalities and matrices to model routine and non-routine problem situations.</p> <p>2.8.11 Algebra and Functions</p> <p>I. Use matrices to organize and manipulate data, including matrix addition, subtraction, multiplication, and scalar multiplication.</p>	<p>The student will be able to organize data into matrices and to work with them using addition.</p> <p>The student will be able to multiply two matrices.</p>	<ul style="list-style-type: none"> • Real life application project • Chalkboard examples • Exercises in book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Real life application project • Classroom observation • Graded homework • Graded class work • Quizzes
<p>2.8.11 Algebra and Functions</p> <p>D. Formulate expressions, equations, inequalities, systems of equations, systems of inequalities and matrices to model routine and non-routine problem situations.</p> <p>I. Use matrices to organize and manipulate data, including matrix addition,</p>	<p>The student will be able to evaluate the determinant of a 2 x 2 matrix.</p>	<ul style="list-style-type: none"> • Chalkboard examples • Exercises in book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes

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subtraction, multiplication, and scalar multiplication.			
<p>2.8.11 Algebra and Functions</p> <p>D. Formulate expressions, equations, inequalities, systems of equations, systems of inequalities and matrices to model routine and non-routine problem situations.</p> <p>2.8.11 Algebra and Functions</p> <p>I. Use matrices to organize and manipulate data, including matrix addition, subtraction, multiplication, and scalar multiplication.</p> <p>2.5.11 Mathematical Problem Solving and Communication</p> <p>B. Use symbols, mathematical terminology, standard notation, mathematical rules, graphing and other types of mathematical representations to communicate observations,</p>	<p>The student will be able to solve a system of linear equations using Cramer’s rule.</p>	<ul style="list-style-type: none"> • Chalkboard examples • Exercises in book • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes

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<p>predications, concepts, procedures, generalizations, ideas and results.</p>			
<p>2.5.11 Mathematical Problem Solving and Communication</p> <p>A. Select and use appropriate mathematical concepts and techniques from different areas of mathematics and apply them to solving non-routine and multi-step problems.</p> <p>B. Use symbols, mathematical terminology, standard notation, mathematical rules, graphing and other types of mathematical representations to communicate observations, predications, concepts, procedures, generalizations, ideas and results.</p> <p>C. Present mathematical procedures and results clearly, systematically, succinctly and correctly.</p>	<p>The student will be able to use systems and matrices in real life settings.</p>	<ul style="list-style-type: none"> • Chalkboard examples • Worksheets • Graphing calculator 	<ul style="list-style-type: none"> • Classroom observation • Graded homework • Graded class work • Quizzes • Test

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