
















ALGEBRA 2: MATRICES

Learning Target 	 Success Criteria (What you need to know) 	How well do you know this? (YOU)	Are you sure? (US)
M1: Matrix Basics	<ul style="list-style-type: none"> ✓ Create a matrix from an array of numbers ✓ State the dimensions of a matrix ✓ Be able to identify column, row, and square matrices ✓ Identify an element of a matrix using the proper notation 	☺ ☹ ☹ ☺ ☹ ☹ ☺ ☹ ☹ ☺ ☹ ☹	☺ ☹ ☹ ☺ ☹ ☹ ☺ ☹ ☹ ☺ ☹ ☹
M2: Adding, Subtracting & Scalar Multiplication	<ul style="list-style-type: none"> ✓ Add or subtract two matrices when possible ✓ Multiply a matrix by a scalar 	☺ ☹ ☹ ☺ ☹ ☹	☺ ☹ ☹ ☺ ☹ ☹
M3: Matrix Multiplication	<ul style="list-style-type: none"> ✓ Know the base of the common logarithm, and evaluate on calculator ✓ Know the base of the natural logarithm, and evaluate on calculator ✓ Use the change of base formula to evaluate other logarithms 	☺ ☹ ☹ ☺ ☹ ☹ ☺ ☹ ☹	☺ ☹ ☹ ☺ ☹ ☹ ☺ ☹ ☹
M4: Transformations with Matrices	<ul style="list-style-type: none"> ✓ Write a set of coordinates as a matrix ✓ Use matrix operations to represent a translation of a set of points ✓ Use matrix operations to represent a dilation of a set of points ✓ Use matrix operations to represent a rotation of a set of points ✓ Use matrix operations to represent a reflection of a set of points 	☺ ☹ ☹ ☺ ☹ ☹ ☺ ☹ ☹ ☺ ☹ ☹ ☺ ☹ ☹	☺ ☹ ☹ ☺ ☹ ☹ ☺ ☹ ☹ ☺ ☹ ☹ ☺ ☹ ☹
M5: Determinants	<ul style="list-style-type: none"> ✓ Calculate a 2X2 determinant ✓ Calculate a 3X3 determinant using the “method of minors” 	☺ ☹ ☹ ☺ ☹ ☹	☺ ☹ ☹ ☺ ☹ ☹
M6: Cramer’s Rule	<ul style="list-style-type: none"> ✓ Solve a system of linear equations in two variables using Cramer’s Rule 	☺ ☹ ☹	☺ ☹ ☹
M7: Identity and Inverse Matrices	<ul style="list-style-type: none"> ✓ Calculate the inverse of a 2X2 matrix ✓ Understand that a matrix and its inverse are related by the equation $AA^{-1} = A^{-1}A = I$ 	☺ ☹ ☹ ☺ ☹ ☹	☺ ☹ ☹ ☺ ☹ ☹

M8: Solving Systems of Equations with Matrices	<ul style="list-style-type: none">✓ Write a system of linear equations in two variables in a matrix form✓ Solve a system of linear equations in two variables using inverse matrices	     	     
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Reflections

Goals