**Algebra 2**

**Chapter 4: Matrices**

**Assignments:**
2. Read (4.2) Do: p.229: 1-7, 12, 21,22,25,28,29,38,39,42,43 matrix multiplication
3. Read (4.3) Do: p.239: 2-10, 21,25,33,41,48,52,57,65 the inverse of a matrix
4. Read (4.4) Do: p.248: 2,3,5,7,17, 29,36, 37-39 solving systems with matrices
5. Read p.242 How Secret is Secret?
6. Self Test: p.265: (1-23)X20-22 chapter test practice

**Chapter #4 Test (Calculator required)**

**Project: Amusement Park/Directed Network**

Due________

**Objectives:**

0. **Vocabulary:** matrix, row, column, element of a matrix, dimensions (row X column), equal matrices, pre-image, image, row by column multiplication, scalar multiplication, network, adjacency network, square matrix, inverse of a matrix (M\(^{-1}\)), invertible matrix, determinant of a matrix (det M), coefficient matrix, variable matrix, constant matrix

1. **Matrix Operations**
   - a. addition
   - b. multiplication
   - c. scalar multiplication
   - d. determinants
   - e. finding inverses

2. **Using Matrices to Solve Systems of Equations**

3. **Applications**

**Notes:**

(16-31)x3 : every third problem
EOO: Every Other Odd
Problems in “brown boxes” (meant to be calculator buttons) are **calculator recommended**

**Using your calculator to find an inverse usually results in an “ugly decimal”, if you hit your MATH button; option #1:→Frac will change all values to a common fraction**

Calculator Keystroke Guide found on pages: 268-271