Syllabus: Pre-Calculus

Daily Work

- You will take notes on every lesson
- All work turned in will be done in pencil
- Work must be shown in an organized manner. If I cannot follow your steps, it will be marked wrong
- If no work is shown on a problem, it will be marked wrong even if the answer given is correct

Tests

- You will have at least two (2) tests each six weeks
- Tests must be finished by the end of the class period
- You may not stay after the bell or come back later after class to finish
- Once a test is started it has to be finished at that time

Notebooks

- You need a notebook (3-ring binder works best) in which to keep the notes that you take
- Bring that notebook to class everyday

Cell Phones

- Cell phones must be on silent and put away in bag, purse or pocket
- You are not allowed to use your cell phone during class

Student Learning Outcomes

Students will be able to solve problems involving real numbers, exponents, radicals, polynomials, factoring, rational expressions, equations, inequalities, polynomial functions, rational functions, inverse functions, exponential functions, logarithmic functions, graphs and their transformations, 6 trigonometric functions, types of angle measure, parts of triangles and circles, parabolas, ellipses, hyperbolas, asymptotes, and vectors.
Subject Matter

1. Algebra topics: exponents, radicals, equations, inequalities

2. Graphs of: equations, functions, lines

3. Polynomial functions of greater than 2 and rational functions

4. Inverse, exponential, and logarithmic functions (including their properties)

5. Angles, trigonometric functions of angles, values of the trigonometric functions, trigonometric graphs, applied problems, unit circle

6. Verifying Trigonometric Identities, Trigonometric equations, Inverse trigonometric functions

7. Law of sines, Law of cosines, vectors

8. Parabolas, ellipses, hyperbolas