**ADVANCED MATH AND SCIENCE ACADEMY**

**STEM-9**

**Geometry B and Algebra 2 (virtual)**

**Mr. Sever**

**Textbooks:**

* *None.*

**On-line platforms you need (for now):**

Please have a Delta Math Account. There are instructions on CTLS. The teacher code you will need is 107990.

**Pace:**

This is a FAST-PACED CLASS. We essentially do almost two full years math in one year. You must work not to get behind. Please communicate with me if you think you are getting behind. It is very important that you do some practice every day. (homework) Utilize helps sessions if needed. I am here to help, but you must do your part.

**Calculator:**

You certainly need at least a scientific calculator. (The Ti-30 family is a good choice) You will need a graphing calculator soon, preferably from the TI-83/84 family, I would probably just get the graphing one to start.

**Grading:**

*If you read nothing else, read this. Assessments will NOT be virtual!! This means you need to be prepared, notes will generally not be used, and your phone will not be available. You will be held accountable.*

**Grading Policy:**

● 50% Tests

● 20% Quizzes

● 10% Classwork/Homework

● 20% Final Exam (Fall)  (The fall final exam MAY be the EOC for Geometry if the State has not approved our waiver Application) Some major test will count for 20% of your grade. 😊 Spring final exam will be teacher made.

**Make Up Work:**

If you miss a major exam or quiz, the make-up will NOT be the same as what the other students received. If you miss a quiz, you may choose to make it up at my convenience or you may let your test grade over the same material can count for the quiz. If you miss a test, they will be made up at my convenience before or after school.

**Topics for Geometry B (hopefully complete by early October)**

* Pythagorean Theorem
* Special Right Triangles
* Right Triangle Trigonometry
* Area of polygons using Trigonometry
* Angles and segments of circles
* Equations of Circles and Completing the Square
* Area and Volume of circles, including Arc length and Sector Area
* Surface Area and Volume of solids
* Probability

**Topics for Algebra II (and maybe a little bit of Pre-Calc)**

* Rational Exponents
* Radical Equations and Inequalities
  + Solving
  + Graphing
* Absolute Value and Piecewise functions
* Polynomials
  + Long Division and Synthetic Division and why would we do this
  + Composition of functions
  + Finding Inverses algebraically and graphically.
* Rational Equations, solving and graphing
* Matrices
* Logarithms with applications
* Conics
* Simultaneous graphing of parabolas and lines
* Reference angles and co-terminal angles (Pre-Calc)
* Unit Circle (Pre-Calc)
* Graphing Trig functions (Pre-Calc)

**A Final Word:**

There are two things you can control 100% of the time, Attitude and Effort. Good attitude means making the best of any situation, taking responsibility and not making excuses. Good Effort means always doing work that you can be proud of. I am much more impressed with someone who has to work really hard for a B, than someone who should get an A, but is lazy and settles for a B.

Also, I have no tolerance for dishonest people, period!

**----It takes a lot of character to do the right thing, even when no one is looking.**