**Welcome to \*AAT!**

**Course Description:**

According to Iowa Core/Common Core Mathematics, key ideas in the study of Algebra & Trigonometry are:   
 Unit One: Polynomial, Rational, and Radical Relationships  
 Unit Two: Trigonometric Functions  
 Unit Three: Modeling with Functions  
 Unit Four: Inferences and Conclusions from Data

In order to develop these key ideas in the study of Algebra & Trigonometry, the Iowa Core calls for three distinct forms of instruction:

1. Rich Mathematical Tasks
   * Fosters conceptual understanding
   * Develops skill proficiency
2. Problem-Based Instructional Tasks

* Emphasize connections
* Provide multiple solution pathways
* Facilitate student involvement and discourse

1. Distributed Practice that is Meaningful and Purposeful
   * Develops understanding
   * Addresses specific needs and curricular goals
   * Concise intervals of consistent practice spread across the school year

**Video Notes:** Students watch the video lesson at home, take notes if necessary, and then come to school and have class time for the teacher to answer questions and demonstrate problems. This also allows students time to work on the problems. This technique is **NOT** in place of teaching the material, but in addition to teaching the material. This teaching technique addresses the typical math classroom problem: Students passively listen to the lecture, begin the homework (only getting to the easy ones), go home and get stuck. Instead, students are able to tackle the “difficult” part of the learning-the problems-in the classroom where there is immediate help available from the teacher and peers.

**Why does this work?** It makes the most of my face-to-face time. I felt that I wasn’t meeting the needs of my students when I spent the majority of class in front lecturing. I wasn’t able to differentiate my instruction. The content in this class is hard! But, by students getting the background from the videos before coming into class and then hearing it again only enhances student learning. This technique also creates a self-paced learning environment with increased time to build relationships. The little bit of extra time saved by having students watch a video ahead of time gives me the ability to work with individuals and small groups every day.

**What does all of this mean for you???** In order to be successful in this course, you will need to:

1. Be an active learner: Pay attention, take notes, watch videos, ask questions, participate, discuss, debate, think, etc. (All of this requires that you stay awake! ☺)
2. Be a responsible student. Bring your supplies to class each day. Show you are really striving to understand and learn by being a contributing group member when working with your peers and proactively seeking help when you have questions. Be an honest worker: copied work whether it is homework, a quiz, or a test does not help you to learn algebra & trigonometry and will not be accepted for credit.
3. Do the things respectful people do. Be in your seat ready to work when the bell rings, listen while others are speaking. Keep cell phones and music devices put away. Keep trips that take you out of class to a minimum. Do not bring food or drink other than water to class.

**Required Materials:**

The following materials are to be brought to class each day. Periodic supply checks will be conducted.   
 1. Textbook 2. 3 subject notebook/folder 5. 1.5 or 2-inch 3-ring binder  
 3. Pencil/Pen 4. TI-83 or 84 graphing calculator

**Grading Procedures:**

|  |  |
| --- | --- |
| **Letter Grade** | **Percentage** |
| A | 100-91.5 |
| A- | 91.49-89.5 |
| B+ | 89.49-86.5 |
| B | 86.49-82.5 |
| B- | 82.49-79.5 |
| C+ | 79.49-76.5 |
| C | 76.49-72.5 |
| C- | 72.49-69.5 |
| D+ | 69.49-66.5 |
| D | 66.49-62.5 |
| D- | 62.49-59.5 |
| F | 0-59.49 |

Grades will be averaged from a variety of assignments such as in-class work, homework, homework quizzes, & chapter tests and quizzes. In-class work will be completed either individually or in partners or groups. Late assignments will not be accepted.

Grades will be updated and calculated on the Portal. You and your parents can access information about your grades by logging in there.

The grading scale used will be the official PVHS scale to the right. Semester grades will be calculated by weighting each quarter at 44% and the semester exam at 12%.

**Extra Credit:** Extra credit will be offered eight weeks per quarter. The problem of the week will be posted on my website. Students with the correct solution with all work shown and turned in on Monday will receive 2 points of extra credit. Students will receive 1 point of extra credit if correctly turned in on Tuesday, Wednesday, Thursday or Friday.

**Attendance Policy:** All students are required to attend class.

Unplanned/Planned Absence: If a student misses class, it is his or her responsibility to obtain the material missed from the teacher or Google Classroom. A student who misses an in-class activity, quiz, or test will need to make it up during 8th period Resource, study hall, or before school. Each student will have two days to make-up work for each day missed. When handing in make-up work from an absence, please mark “absent” at the top of the assignment.

If a student knows in advance that he or she will miss class, arrangements about missing work need to be made prior to the absence.

**Extra Help/Resources:** Please utilize 8th period resource if you have questions, need extra assistance, or want extra practice. Remember my website too!