



Honors Trigonometry

Course Syllabus 2021-2022

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Course Description

Trigonometry/Advanced Mathematics is a collection of topics by which students will gain the necessary skills for further studies in mathematics, as well as gain everyday math skills.

Trigonometry is not only a class for mathematicians, but also for students who are looking to go to college, the military, or the workforce, as its value does not stop at the classroom door.

Trigonometry will require students not only to master new topics but also effectively apply prior knowledge into real life situations for better analysis, comprehension, and appropriate reaction.

Goals for Student Learning

Students will build their mathematical proficiency by...

- Making sense of problems and persevering in solving them.
- Reasoning abstractly and quantitatively.
- Constructing viable arguments and critiquing the reasoning of others.
- Modelling with mathematics.
- Using appropriate tools strategically.
- Attending to precision.
- Looking for and making use of structure.
- Looking for and expressing regularity in repeated reasoning.

Textbook

Activities and assignments will be based on the material found in Chapters 2-13 from the text, *Functions, Statistics, and Trigonometry* (McGraw Hill, 2010) as well as supplementary materials. This book may be kept at home.

Required Supplies

- Pencils
- TI-84 Plus CE Calculator. This may be taken to and from class.
- 1 ½ inch, 3-ring binder
- Paper (lined and graph)
- School issued laptop to be taken to class daily. **MUST BE CHARGED OVERNIGHT!**

Course Outline

| Quarter | 1 | 2 |
|----------|---|--|
| Concepts | <ul style="list-style-type: none">• Functions and Models• Transformations of Graphs and Data• Trigonometric Functions and Identities• Polynomial Functions | <ul style="list-style-type: none">• Sequences and Series• Roots, Powers, and Logarithms• Matrices*• Quadratic Relations*• Probability* <p><i>*Indicates additional topics if time allows</i></p> |

HCPS Grading Policy

| Examples of Product, Process, and Practice | | |
|--|--|---|
| PRODUCT (50%) <i>Culminating Demonstration of Knowledge</i> | PROCESS (30%) <i>Addressing Specific Short-Term Learning Outcomes</i> | PRACTICE (20%) <i>Building Attitudes, Habits, and Skills</i> |
| Does it measure how well students achieved specific learning goals, standards, and/or competencies? | Does it provide feedback to students regarding growth towards the attainment of specific learning goals, standards and competencies? | Does it allow students to practice skills and/or reinforce content learning? |
| <ul style="list-style-type: none"> Primarily completed in presence of teacher Rubric aligned to standards Accuracy graded | <ul style="list-style-type: none"> Primarily completed in presence of teacher Rubric aligned to standards Accuracy graded | <ul style="list-style-type: none"> Graded for completion and participation |

****Extra credit will not be given for non-academic purposes****

Absent Work Policy

All assignments should be submitted on time. Students will be given the number of class periods equal to the number of lawful class periods absent to turn in completed make up assignments without penalty.

Late Work Policy

All assignments should be submitted on time in order to earn full credit. Any assignment, (*product, process, or practice*) will be allowed to be turned in late for one letter grade deduction from the grade a student earns on the assignment. In order to earn credit for late assignments, students must submit assignments by the end of the day on Wednesday (except for the last week of the quarter) following the designated HAC update. Students are only able to submit assignments that have an established due date within the grading window before the designated HAC update. Assignment that are turned in for late credit will be identified by a footnote in HAC to include a statement about the deduction of a letter grade due to the lateness of the assignment.

| Grading Window | Designated HAC Update | Late Work Due Date |
|---------------------------|-----------------------|---------------------|
| September 8- September 24 | September 24 | September 29 |
| September 27- October 13 | October 13 | October 20 |
| October 14- October 29 | October 29 | November 5 (Friday) |
| November 8- November 19 | November 19 | November 24 |
| November 22- December 10 | December 10 | December 15 |
| December 13- January 13 | January 13 | January 21 (Friday) |
| January 24- February 11 | February 11 | February 16 |
| February 14- February 25 | February 25 | March 2 |
| February 28- March 11 | March 11 | March 16 |

| | | |
|--------------------|----------|---------------------|
| March 14- March 25 | March 25 | March 31 (Thursday) |
| April 1- April 22 | April 22 | April 27 |
| April 25- May 6 | May 6 | May 11 |
| May 11- May 20 | May 20 | May 25 |

Academic Integrity

Academic integrity is taking responsibility for the quality and completion of one's own work. Academic dishonesty is taking someone else's work and claiming it as one's own. Students at Bel Air High School are responsible for knowing what is considered to be Academic Dishonesty and the subsequent consequences. More information can be found in the BAHS Student Planner.

Classroom Rules and Procedures

- **You are responsible for your work.** You must turn in assignments before you leave school for an activity and be prepared for the next class.
- **You are responsible during an absence to get copies of the classwork and homework assignments.**
- **You are responsible for your success.** Please make an appointment with me for extra help if you are having difficulty with a particular topic.
- Use the restroom and go to your locker during passing time.
- We are all decent human beings, please act accordingly.

Cell Phone Policy

- Students will place their cellphones in a teacher designated area as they enter each classroom. Teachers will review with students the specific location for each room. The phones will remain in the teacher designated area unless teachers explicitly tell students to take out the phones for instructional use.
- Cellphones will remain in the teacher designated area during bathroom visits, assemblies and trips to the nurse/counseling office/main office.
- Cellphones will be retrieved from the teacher designated area at the end of class at the direction of the teacher.
- School-appropriate cellphone use is permitted during class changes and lunch. Students are not permitted to make phone calls during school hours.
- If the cell phone policy is violated, it is a referable offense.