

Welcome to

Algebra 2/Trig H

2019-2020

Welcome to Advanced Algebra 2/Trigonometry Honors! We are excited that you will be embarking on a journey to expand your understanding of mathematics and its concepts, tools, and techniques. This is a class that is designed to challenge your understanding of mathematics, expand your critical thinking skills, and prepare you for success in future math classes.

About Your Summer Assignment

This summer, you will have the opportunity to sharpen your skills from previous classes. Due to the large number of topics we must study to prepare for calculus, we cannot review concepts that you have studied in Algebra 1/2 and Geometry, and we will *immediately* continue your study of Algebra 2 when you return in September.

You will be added to a “Summer Math Assignment” course on Schoology, which contains a copy of this assignment and other resources to help you complete your assignment.

To complete your summer assignment:

- **STUDY** the **PowerPoints** on Schoology that further reviews the topics from the book.
- **COMPLETE** ALL assigned problems. You are expected to *correctly* complete all problems, not just “try” them.
- **CHECK** your work using the **solutions** posted on Schoology.

This assignment is DUE the first day of classes.

ASSIGNMENT:

Textbook: “*Algebra 2 Common Core*” by Charles, et al. (2012)

Your textbook is available for purchase on MBS.

Complete the following exercises. Unless specified in the book, all problems should be completed WITHOUT a calculator:

- Lesson 1-2 (Properties of Real Numbers) #12-48 multiples of 4
- Lesson 1-3 (Algebraic Expressions) #30-50 multiples of 5
- Lesson 1-4 (Solving Equations) #10-60 evens (skip 26, 52)
- Lesson 1-5 (Solving Inequalities) #10-60 multiples of 5
- Lesson 1-6 (Absolute Value Equations & Inequalities) #10-60 multiples of 5
- Lesson 2-1 (Relations and Functions) #10-30 multiples of 5
- Lesson 2-3 (Linear Functions & Slope-Intercept Form) #10-60 multiples of 5
- Lesson 2-4 (More About Linear Equations) #10-50 multiples of 5
- Lesson 3-1 (Solving Systems Using Tables & Graphs) #10-40 multiples of 5
- Lesson 3-2 (Solving Systems Algebraically) #10-50 multiples of 5
- Lesson 3-3 (Systems of Inequalities) #8-18 evens
- Lesson 4-4 (Factoring Quadratic Expressions) #20-70 multiples of 5
- Lesson 4-5 (Quadratic Equations) #10-16 evens
- Lesson 4-6 (Completing the Square) #20-50 multiples of 5
- Lesson 4-7 (The Quadratic Formula) #12-20 evens
- Concept Byte for Lesson 6-1 (Properties of Exponents) #1-18 multiples of 3