

Algebra 2 / Trigonometry Honors Summer Assignment

Going into Algebra 2/Trig Honors, there are certain skills that have been taught to you over the previous years that you should know well. This summer packet is intended to help you brush up and possibly relearn these topics. You should have acquired the basic algebraic skills that enable you the ability to solve equations, work with algebraic expressions, and perform basic factoring of equations.

In addition to reviewing basic algebraic skills, this packet will help you become familiar with your Algebra/Trig textbook and the TI-84 Plus calculator, both of which are required for this course.

Textbook: *Algebra and Trigonometry 10th Edition by Ron Larson*

Calculator: *TI-84 Plus CE*

This Summer Assignment is for all students enrolled in Algebra 2/Trig Honors this coming fall. The assignment is to be completed, in full, and submitted to the instructor on the first day of school. Show all work for each problem, using additional paper if needed. As noted, ONLY THE ODD PROBLEMS ARE REQUIRED. You may complete additional problems for extra practice if you choose. It is in your best interest to understand each problem and complete them to the best of your ability. Use an Algebra 1 textbook or on-line resources if additional help is needed.

As mentioned, the TI-84 Plus, graphing calculator, will be required for this course. It would be wise to purchase this calculator early and familiarize yourself with the functions relating to Algebra 2 and Trigonometry. Practice graphing equations using the graphing function and familiarize yourself with the graphing features such as windowing and zooming. There is an on-line app for the TI-84 calculator and a web site which are of great help. There is also a small booklet titled "TI-84 Plus CE Guidebook for High school & College" available that I have found helpful.

I look forward to seeing you in class this fall!

Mr. Thomsen

jthomsen@gracebrethren.com

PART 1: Textbook Familiarity

(Use a separate piece of paper to answer all questions.)

1. Inside the front cover you will find graphs of parent functions. Draw a picture of your favorite function. Write a few sentences describing your observations relating the graph to the description listed below the graph.
2. Who is the author of your textbook?

3. Table of Contents and Chapter Features

- a. What chapter of the textbook looks most intriguing? Record the chapter's title and explain why you find the chapter interesting.
- b. Turn in the textbook to the first page of your chosen chapter. List two real-life applications you will discover in this chapter.
- c. Turn to the chapter exercises of one of the sections in the chapter. In the Vocabulary section, fill in two of the sentences with the correct vocabulary word(s) found in the chapter.
- d. Install the **CalcView mobile app** on your tablet or cell phone. Click on the Algebra Trig textbook. Click on the QR reader (red button) and scan the first QR code in your chosen section of exercises. This will link you to a video explaining the corresponding (re numbered) problem from the following section. Record the name of your instructor.
- e. Turn to the corresponding Chapter Summary. Record the problem numbers from the review exercises you should review for the first four sections of the chapter.
 - i. Page _____ # _____
 - ii. Page _____ # _____
 - iii. Page _____ # _____
 - iv. Page _____ # _____
- f. **CalcChat.com**: On your web browser, visit CalcChat.com. View your textbook under "Algebra Trig". Record the problem, work, and solution for P.4 #43 (Chapter P, Section 4, Exercise 43: Factoring by Grouping).

4. Appendix

- a. What is the purpose of Appendix A?
- b. Use your own words to describe the error in Appendix A, Example 1.
- c. Use a tool of your choice (sticky note, or other) to make the answer section to provide quick access during the year.
- d. Use the **index** and record the page number for directions on how to graph a logarithmic function.

PART 2: Exercises

1. Complete each problem from your textbook on a separate piece of paper. Record the problem, show your work, and box your solution.
2. See **CalcChat** for examples on how to show your work but take time to make each problem your own solution that represents your thought process on how to solve.
3. Use the chapter introduction for vocabulary help and examples as well as the provided QR codes and **CalcView** as a resource for extra assistance.

P.1 Page 12 (1-11 odd, 15, 25, 33 37)

P.2 Page 24 (5,7,9,17-25 odd)

P.3 Page 31 (7, 17, 23, 25, 35)

P.4 Page 39 (1–11 odd, 19, 21, 33-39 odd)

P.5 Page 48 (17, 23, 25, 33, 39)

P.6 Page 57 (1-11 odd, 17, 21, 23, 31, 39)

1.1 Page 78 (7-11 odd, 15-21 odd)

1.2 Page 87 (1-11 odd, 19-21 odd)

1.3 Page 97 (1-9 od, 21, 23)

1.4 Page 110 (3-13 odd, 19, 25)

1.6 Page 128 (3, 31, 33, 39)

1.7 Page 137 (17-23 odd)

2.1 Page 169 (1-23 odd)

9.1 Page 635 (1-7 od, 15, 21, 35)

9.2 Page 646 (1-7 odd, 13, 15, 17, 31, 33)