

Honors Algebra II

Summer Assignment Instructions

Welcome to Honors Algebra II! As you will be entering Honors Algebra II next year, we would like to make sure that you are refreshed on all your Algebra skills and ready for the year ahead. Throughout the summer we would like you to complete a few tasks on Delta Math (www.deltamath.com). Delta Math is a free online math resource to help you with all most any topic in mathematics. We will then continue to use Delta Math throughout the year. If you have any questions, comments, or concerns with Delta Math, please feel free to e-mail Mrs. Lane llane@gmahs.org.

1. Create a Delta Math account. You need an email to login. Please write this down somewhere safe, you will need to sign into Delta Math every time. (If you already have a Delta Math account, you do not need to create a new one.)
2. Course Code: 5QH4-A3JL
3. Subject: **Summer 2024 Honors Algebra 2**
4. Delta Math will show you the skills that you need to complete. You need to solve **5 problems correctly** from each skill posted. Some weeks that means you complete 10 problems. Click on Show Example if you are unsure how to solve a problem.

**We ask that you work on Delta Math at least once a week over the summer:
Approximately 8 weeks total for a minimum of 12-15 minutes each**

Week	Skill to Practice:
Week #1	<u>Solving Linear Equations</u> 1. Linear Equations w/Distribution (Level 2)
Week #2	<u>Linear Inequalities</u> 1. Linear Inequalities (Level 2)
Week #3	<u>Graphing</u> 1. Graphing lines from Equations 2. Graphing $Ax + By = C$ from intercepts
Week #4	<u>Intro to Slope</u> 1. Finding the Slope from Points 2. Standard to Slope Intercept form
Week #5	<u>Slope - Intercept Form</u> 1. Lines from Point/Slope (Diagonal Only) 2. Line Equations from Point/Slope
Week #6	<u>Point - Slope Form</u> 1. Factor Trinomials($a=1$) 2. Factor Trinomials ($a >1$) Level 1

Week #7	<u>Systems of Equations</u> 1. Systems of Equations (Elimination Level 1) 2. Write System from Context
Week #8	<u>Radicals</u> 1. Simplify Radicals
Week #9	<u>Quadratics</u> 1. Solve quadratics by factoring 2. Quadratic formula
Week #10	<u>Exponents</u> 1. Negative Exponents (Type 2) 2. Exponential Rules (Level 2)

With vacations, camps, etc. we understand that there may be some weeks where you may not be able to log on and other weeks where you can spend more than 12 minutes on Delta Math. We broke this up as a general outline for the summer tasks, yet you by no means must follow this exactly. Just by the start of September we are asking that you have spent **at least 96 -120 minutes (< 2 hours)** on Delta Math and have attempted all the skills listed in the skills to practice. The more practice you put in the better, but please do not feel like you need to spend your whole summer working through more problems than necessary.

This summer assignment will be considered your first assignment for Algebra II. You will be graded using the following rubric. Part of this grade will come from a 30-point assessment on all the sections listed above. The Delta Math assignment should be completed prior to September 3, 2024. **Additionally, you need a TI-84 or higher graphing calculator for the start of the school year. Please consider buying one over the summer so you are prepared.**

Category Name	Description	Point Value
Skills Practiced	You will be awarded up to 40 points for the skills you complete correctly on Delta Math. I will convert your grade from Delta Math (out of 100%) to a grade out of 40 points.	/40
Assessment	Score on a 30-point assessment in the beginning of the year on all skills covered above.	/30
Total		/70

Again, please feel free to e-mail Mrs. Lane (llane@gmahs.org), if you have any questions or concerns about this assignment.

We wish you a safe, happy summer and we look forward to seeing you again in the fall!

The Gwynedd Mercy Academy Mathematics Department