

PreCalculus

Summer 2021 Assignment Instructions

Welcome to PreCalculus!! As you will be entering Precalculus next year, we would like to make sure that you are refreshed on all your Algebra 2 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. May at kmay@gmahs.org

1. Create a Delta Math account. You need an email to login. Please use your GMA email account. 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. Teacher Code: **353449**
3. Subject: **Precalculus Summer 2021**
4. Delta Math will show you the skills that you need to complete. You need to solve **3 problems correctly** from each skill posted. Click on Show Example or play video if you are unsure how to solve a problem.

Week	Skill to Practice:
1	Linear systems: Solve Linear systems Graphically (level 2) Solve linear systems algebraically: Solve linear systems – Elimination (level 2) Solve linear systems – Substitution (level 2)
2	Simplify Radicals: Simplify Algebraic Square roots/ Simplify algebraic cube roots Multiply Radical Binomials / Dividing algebraic Radicals
3	Simplify Radicals (cont'd): Rationalize monomial denominators Rationalize denominators with variables Combine radicals / Fractional exponents
4	Factoring: Greatest Common Factor Factoring Trinomials ($a = 1$) Factoring Trinomials ($a > 1$ Level 2) Factoring Trinomials ($a > 1$ Level 3)
5	Imaginary / Complex numbers: Add imaginary numbers Multiply imaginary numbers Multiply complex numbers

6	Polynomial Operations / Polynomial Graphs: Adding and subtracting polynomials Multiply binomials Squaring binomials
7	Function Domain and Range: Visual Domain and Range Domain and Range with Technology (use your calculator or Desmos)
8	Solving radical equations: Radical Equations (level 1) Radical Equations (level 2)
9	Polynomial Operations: Multiplying polynomials (level 1) Multiplying polynomials (level 2)
10	Exponent Rules: Multiply powers Dividing powers Negative exponents (Type 1) Exponential Rules (Level 1)

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 10-20 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 120 -150 minutes (~ 3 hours)** on Delta Math and have attempted all the skills listed in the skills to practice.

This summer assignment will be considered your first assignment for Precalculus. You will be graded using the following rubric. Part of this grade will come from an assessment on all the sections listed above.

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. May kmay@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!

Mrs. May

The Gwynedd Mercy Academy Mathematics Department