

Dear Parents and Honors Precalculus Students,

I hope this letter finds you well. I wanted to welcome you to Honors Pre-Calculus AB and Honors Pre-Calculus BC and quickly introduce myself to those that don't already know me. My name is Mrs. Howard and I'm excited to be going into my third year at Bishop McGuinness and for the opportunity to teach Honors Pre-Calculus AB and BC and Honors Calculus this school year!!

I would like to remind our rising Honors Precalculus students of the importance of staying engaged with mathematics during the summer months. As you know, the Honors Precalculus curriculum is rigorous and demanding, and requires a solid understanding of fundamental concepts. To ensure that students are well-prepared for the upcoming school year, I will be assigning summer work that covers important material from the previous year.

This year I am requiring students to complete questions on Delta Math. This is an online platform that will allow me to track students' progress and provide targeted support where needed.

To provide students with an opportunity to review the material covered in the summer work and Delta Math, I will dedicate one day of class time in the first couple weeks of school to go over the material. It is important that students come prepared with any questions they may have, so that we can address them in class.

Please note that this work will be graded as a homework grade and will be tested during the first 2 weeks of school. It is essential that students complete the summer work thoroughly and on time, so that they can start the year off on the right foot.

Thank you for your support and dedication to your child's education. I look forward to working with you and your child to ensure a successful and rewarding school year.

Sincerely,
Mrs. Howard

(Please see the next pages for instructions and contact information)

Bishop McGuinness Catholic High School
Honors Precalculus Summer Assignment 2025-2026
Instructor: Mrs. Amy Howard, ahoward@bmhs.us

For Precalculus, you will need:

- (1) A 2" binder, which needs to be separate from other classes
 - (2) A graphing calculator (TI-84) USED FREQUENTLY**
 - (3) College Ruled Paper & Graph Paper
 - (4) Highlighters if you like to use them
 - (5) Other supplies or classroom "Wish List" will be given out when school begins
- Textbook link will be provided in CANVAS on the 1st day of class.
 - **You are NOT required to purchase a physical copy of the textbook.**

(Note: Although I list my e-mail above, I may not be available at times during the summer. However, I will reply as quickly as possible.)

Congratulations on your choice to pursue academic excellence! This virtual summer packet on Delta Math is designed to aid you in brushing up on foundational skills needed to ensure your success in your upcoming math course.

To sign up for Delta Math, follow these instructions:

(A) Go to the following site: <https://www.deltamath.com/students?code=9W8M-J3YK> (or you can go to www.deltamath.com, click "For Students" and then "Register" and enter the following class code. **9W8M-J3YK** (For this SUMMER ASSIGNMENT, this link or class code is the SAME for ALL CLASSES.)

(B) Click register with e-mail, input your e-mail (Bishop McGuinness e-mail, please) and then click "Check E-mail".

(C) You'll have to enter your name and a password (Please use your real name or else you won't be able to get credit).

(D) Once you've gotten this, you'll be able to log in. You should see the parts of the summer assignment posted there (Parts 1 - 4)

Please note the following:

- Your grade for your summer work will be based on your successful completion of the 4 Delta Math assignments, correctly following the instructions below and the work turned in for ALL sections (unless a problem did not require any work).
- While doing basic computation questions (ex. fraction operations) you should be completing them on your own, without a calculator or other device.
- On lined paper, please title the assignment “Summer Packet” and write your name on the top right-hand corner. Label each of the 4 Assignments, Part 1, Part 2, Part 3 and Part 4. You may simply draw a line when done with section 1 and then label the next section or start a separate sheet of paper. Using **pencil**, start each question by **numbering the problem**, then **show all your work**, and **finally circle your answer**.
- This virtual summer packet must be completed before school begins on 8/19/25 at 8 am.
- An assessment of these prerequisite skills will be given w/in the first 2 weeks of school.
- Students who have difficulty with the skills on the summer packet should consider using resources available on Delta Math/Khan Academy/YouTube etc. to be properly prepared for your upcoming math course. Other resources that may be helpful:

- 1) <https://www.purplemath.com/modules/index.htm>
- 2) <https://tutorial.math.lamar.edu/Classes/Alg/Alg.aspx>
- 3) <https://www.greenemath.com/Algebra1.html>
- 4) <https://www.greenemath.com/AlgebraII.html>
- 5) You can also simply type in the name of a topic and watch math teachers explain the concepts for FREE!!! PLEASE DO THIS IF YOU FORGET HOW TO DO SOMETHING!! 😊

What will be on this summer assignment and on your summer work test? Please see the following list of potential topics for each set below. Each set should take around 45 min- 1 hour to complete, unless you need to brush up on some of the prerequisite skills. Your summer work test will feature multiple-choice problems. Problems could involve topics in algebra and geometry.

Set 1 features questions from the following areas:

- Plot points and graphing in a coordinate plane
- Basic radical operations and equations
- Simplifying Rational Expressions
- Simplifying expressions using distribution
- The Distributive Property
- Two Step Equations with Fractional Coefficients
- Linear Equations
- Two Step Equations
- Simplifying radicals
- Solving Rational Equations

Set 2 features questions from the following areas:

- Determine if a set of points describes a function
- Domain and Range from a Graph
- Finding Slope and Average Rate of Change
- Direct Variation
- Graphing Linear Functions
- Determining Linear Equation from Two Points
- Point/Slope, Standard, and Slope-Intercept Form for Lines
- Parallel and Perpendicular Lines
- Function Compositions

Set 3 features questions from the following areas:

- Solving Inequalities
- Absolute Value Equations, Functions, and Inequalities
- Graphing Systems of Equations
- Using Substitution and Elimination Methods to Solve Systems of Equations
- Consistent and Inconsistent Systems

Set 4 will feature questions from the following areas:

- Factor Trinomials
- Solving Quadratics by Factoring
- Quadratic Formula
- Using Interval Notation
- Determining if a Graph or Set of Points describes a Function
- Evaluate Functions
- Find appropriate domains for functions
- Finding y-intercepts and roots for a function