

AP CALCULUS I SUMMER MATH INFORMATION

Dear AP Calculus I Student,

The Mathematics Department at Central Catholic High School would like to congratulate you on your placement in AP Calculus I for the fall of 2022.

AP Calculus I is a rigorous and demanding course taught on a college level in preparation for the AP Calculus AB Exam. Students will study the fundamentals of Calculus with an emphasis on real-life application. A Texas instrument graphing calculator (TI-89 or TI-Nspire CAS) is required for this course and should be brought to class each day, starting the first day of school.

In the fall we will use the first few weeks of school to quickly review some Pre-Calculus before moving into Calculus topics. To help you prepare for this material, we have compiled a short list of activities for you to complete using Khan Academy over the summer. Khan Academy is a free resource which provides learners access to practice problems and instructional videos on their website [khanacademy.org](https://www.khanacademy.org).

Please create a Khan Academy account or use your school Google account to log in to the website. Then complete the list of activities **on the next page** by the first day of school. Completion of these activities will count as the first two assignments in your AP Calculus I class. Students will also have an assessment over the content covered in their summer math activities during the first week of school.

If you have any questions, please contact your AP Calculus I teacher via their school email.

Have a safe and relaxing summer. We look forward to seeing you in the fall.

Sincerely,

Kimberly Zoucha
Math Department Chair

CREATING A KHAN ACADEMY ACCOUNT

1. Go to the website [khanacademy.org](https://www.khanacademy.org) and click "Login."
2. Then you can click "Continue with Google" to link your Khan Academy account to your school Google account. Enter your school email (first.last@cchsrams.com) and password. You will use this method to log in each time you go to the website.

KHAN ACADEMY ACTIVITIES TO COMPLETE OVER THE SUMMER

After logging in to your Khan Academy account, work on completing the following Khan Academy units by clicking on the links below.

<https://www.khanacademy.org/math/get-ready-for-ap-calc/xa350bf684c056c5c:get-ready-for-limits-and-continuity>

<https://www.khanacademy.org/math/get-ready-for-ap-calc/xa350bf684c056c5c:get-ready-for-differentiation-1>

<https://www.khanacademy.org/math/get-ready-for-ap-calc/xa350bf684c056c5c:get-ready-for-differentiation-2>

<https://www.khanacademy.org/math/get-ready-for-ap-calc/xa350bf684c056c5c:get-ready-for-contextual-applications-of-differentiation>

<https://www.khanacademy.org/math/get-ready-for-ap-calc/xa350bf684c056c5c:get-ready-for-applying-derivatives-to-analyze-functions>

For each unit linked above scroll all the way down and complete the "Unit Test."

- You must score at least a 75% on each unit test.
- If you score below a 75%, look at the activities listed above the unit test to review the material before trying the unit test again.
- Resources available include both lesson tutorial videos and interactive help articles.

Multiplying and dividing rational expressions

Learn

- ▶ Multiplying & dividing rational expressions: monomials
- ▶ Multiplying rational expressions
- ▶ Dividing rational expressions

Practice

Multiply & divide rational expressions (basic)
Get 3 of 4 questions to level up!

Practice

Example of resources available to help with review

Unit test

Level up on all the skills in this unit and collect up to 3300
Mastery points!

Start Unit test

Required with score of 75% or higher