

A.P. Calculus – Summer Packet

Welcome to AP Calculus! We hope you have a successful year and enjoy this new challenge. To ensure that you get off to a great start, you will need to complete a summer packet. This packet will guide you through a review of the algebra skills necessary for success with calculus topics.

To access your summer homework and receive any announcements, you will need to sign up for both Google Classroom (code: 4qewv81) and Remind. Directions are on the next page. For your convenience, the summer packet has also been posted to Mrs. Muller's Blackboard account.

Your summer homework includes 6 attachments, parts A-C, D-F, G-K, L-P, Q-U, and the Graphing Calculator Activity.

GRAPHING CALCULATOR ACTIVITY:

Print *all* 4 pages. Please note your observations and graphs as indicated on the handout.

We recommend that you do this activity *before* you do part U in the “RU Ready” assignments. This assignment will provide you with some help changing the window in your graphing calculator to see the effects on the graph. The directions will indicate how to set your window. For example, $[-3, 4]$ by $[-1, 5]$ indicates that the minimum x value is -3, the maximum x value is 4, the minimum y value is -1 and the maximum y value is 5.

RU READY - PARTS A-U:

***For credit, complete work must be shown for all problems.
Do not use your graphing calculator except on part U.***

Print the problem sets on the *even* pages. Your work must be recorded on these printed pages in the space provided. The odd pages contain sample problems to help you get started. You do not need to print these pages.

When you are unsure of how to attempt any problem, explore websites (next page) and reread the provided sample problems. The information in these pages are required understanding for the calculus which you will learn throughout the year. Please give these assignments your best effort.

DUE DATE:

This packet is due the first day back to school in August. It will be graded. Work must be shown. Graphing calculators are only allowed on “RU Ready” part U and the graphing calculator handout. Test on the summer material will be given within the first week of class.

Because we need the algebra techniques to be relatively fresh in your mind in the fall, start the work in the end of June. Do not wait, however, to do this packet at the very last minute. The problems take time. If you do two concepts a day, the whole packet will take you about two weeks to complete.

Besides completing the packet in Google Classroom, the following materials are required for AP Calculus AB. Please have these materials by the first day of school so we are able to get started right away:

- Graphing Calculator (TI 84 Plus is recommended. Check for used calculators online.)
- Spiral with graph paper
- 3-Ring Binder, Dividers, Highlighters, Colored Pencils and Ruler

Also, please sign up for the class Remind account. (See table below.) We may need to send out information during the summer. Remind will be used next fall as well.

If you have questions about any of these problems or techniques used in solving them, contact us at our school email addresses. Have a good summer. See you in the fall.

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AP Calculus AB Online Resources

1) Blackboard	<p>This class website can be found by going to the Oakmont High School website. A Blackboard link is located at the top left hand corner of the screen. Select.</p> <p>Select “Preview as a Guest” or login.</p> <p>Choose “Classes” which is at the top of the screen.</p> <p>After selecting “Classes”, enter AP Calc in the search window. Scroll down until you see AP Calculus AB with Mrs. Muller listed as the teacher.</p> <p>Select “Summer Homework” from the options on the left menu.</p>
2) Google Classroom	<p>Use code 4qewv81 to join. The summer homework as well as other information will be posted here.</p>
3) Remind	<p>There are two ways to sign up for the class Remind account:</p> <p style="text-align: center;"><u>By texting:</u> TO: 81010 MESSAGE: @ 2kc8dk</p> <p style="text-align: center;"><u>Using your browser:</u> remind.com/join/2kc8dk</p>
4) Helpful Websites	<p>Paul’s Online Notes: http://tutorial.math.lamar.edu/Classes/CalcI/CalcI.aspx</p> <p>Graphing Calculator https://www.desmos.com/calculator</p> <p>Equation Solver and Grapher: https://www.wolframalpha.com/</p> <p>Khan Academy: https://www.khanacademy.org/</p> <p>Helpful Videos: http://www.hippocampus.org/ http://www.mathtv.com/</p> <p>Review: http://www.purplemath.com/modules/index.htm http://www.coolmath.com/precalculus-review-calculus-intro https://www.math.ucdavis.edu/~marx/precalculus.html http://www.themathpage.com/aPreCalc/precalculus.htm</p>