

# AP Calculus AB

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Do you want to make a 3, 4, or even a 5 on your AP Calculus exam? If so, it is essential that you have a firm background and strong working knowledge of pre-calculus topics: algebra, geometry, trigonometry, and analytical geometry. Calculus is not difficult...but it does require that you understand and can apply math concept you have learned. This packet contains material that you should be able to do. The first 2 weeks of school will be a *quick review* of all kinds of “Pre Calculus” skills. In order for you to be successful in AP Calculus, you must be proficient at factoring, solving all kinds of equations, rational root theorem, know the unit circle, be able to draw reference triangles, and know parent graphs as well as how transformations affect the parent graphs.

## Summer Assignments

1. Join Edmodo ... make a student account by visiting [www.edmodo.com](http://www.edmodo.com) and join my 2019-2020 AP Calculus AB class with group code **e469v8** ... If you try to join after June 6<sup>th</sup>, you will have to wait for me to approve you. I will check once a week and approve those joining late. So be patient. If it goes past a week, just email me and I'll go in to Edmodo to see what happened. This can cause a delay in your progress and flags you as late to follow directions ... So join right away!
2. *The following review sets need to be completed before THE FIRST DAY OF SCHOOL!* You will find brief reviews and worksheet problems in pdf on Edmodo beginning May 31, 2019. If you set your Edmodo preference settings, the app will notify you when I make a new post.
  - You must know the unit circle! I will post one filled in and a blank one. You must be able to fill in the blank one within 6 minutes. You must also be able to answer questions using your knowledge of the unit circle on my practice worksheet. There are many other practice activities, videos, and even quizlets online ... just google for some and practice!
  - Algebra and Trig Skills: This worksheet has hints and a variety of skills needed throughout calculus.
  - Parent Functions/Graphs and Transformations: This handout will show parent functions and transformations as well as practice problems.
  - Graphing Rational Functions: This handout provides a review and practice problems.
3. You will have quizzes over the unit circle, parent functions with transformations, and graphing rational functions the first two weeks of school. The above assignments and suggestions will help prepare you for success on these quizzes. See below for the dates I suggest you have them completed in order to keep your skills sharp and not have you overwhelmed when school begins.

*Note: Failure to complete these assignments will put you at a major disadvantage. You will be choosing to play catch up all year long and you will make a very poor impression ... All four will be collected on the second day of school!*

## Assigned problems and timeline suggestions for having them complete ...

Note: the first 3 bulleted assignments are required, the 4<sup>th</sup> is extra credit

- Unit Circle and Practice with it ..... June 10
- Parent Functions/Graphs and Transformations ..... June 24
- Graphing Rational Functions ..... July 15

*If you would like to begin the year with the cushion of extra credit ☺ ... This is due on the 2<sup>nd</sup> Day of School, no exceptions.*

- Algebra and Trig Skills ..... August 2

## CHARACTERISTICS OF A SUCCESSFUL CALCULUS STUDENT:

- Committed to doing well
- Desires to learn
- Works with study groups outside of class to further understanding
- Seeks help as soon as difficulty arises
- Makes attendance in class and attention during class a priority in life
- Becoming a thinker, not an imitator
- Willing to study for understanding, no matter how many hours are required
- Always completes assignments on or before the due date
- Asks questions for understanding
- Uses resources beyond textbook to further understanding

You should visit the College Board website: [www.collegeboard.com](http://www.collegeboard.com). It has information on approved graphing calculators as well as plenty of other AP information. I suggest a TI-84 graphing calculator, as that is what I use in class.