AP Calculus AB assignment: Name:_____

Congratulations on taking AP Calculus AB. Your summer assignment consists of video lessons on previously learned topics, deemed by both previous students and me, which are vital to your success in AP Calculus AB.

Each topic contains:

- A video lesson
- Guided notes
- Assignment, with solutions
- Mini quiz with solutions

The topics are:

1. Exponentials and logarithms, including the laws of exponents & logs

2. Solving equations with all variables for a single variable

3. Equations of lines, slopes of lines & their meaning, parallel/perpendicular lines, average rate of change

4. Even/odd/neither functions; graphical and analytical ways to determine such

5. Graphing made easy; how to do it quickly for ALL types of functions

6. Function notation, inverses of functions

7. What should you be able to do on your graphing calculator prior to the class

8. Solving by factoring

9. Exact trig values; how to find the values and the angles

10. Binomial expansion

11. Trigonometric identities; which are important to our class and how you use them

12. Systems of equations

Your assignment is to do all 12 of these lessons. You may find them on my Google Classroom (code: 6ju1sou) in the folder titled: AP Summer Assignment. Each of the 12 lessons has its own folder for you to access. Some of the assignment portions are worksheets, pages from texts, and some are problems from the very AP Calculus text you will be using. Therefore, you will want to pick that up prior to summer!

The first week of school we will be going over these topics (*albeit quickly because you will have done the summer assignment) and there will be a test the 2nd week of school on these. You will want to be prepared!

*All of this will allow us to get a jump on the year, get into the calculus and ensure success on the AP Exam: Tuesday, May 5, 2020.