

School Year 2018 – 2019

Mr. Nelson Diaz  
Nyack Senior High School  
Department of Mathematics

Mr. Julio Cedeño  
Math Department Chair

### AP Calculus Summer Assignment

Using the textbook for this class, (Calculus 11<sup>th</sup> AP Edition by Ron Larson and Bruce Edwards), read the sections indicated below, write a summary for each of the sections focusing on the important theory discussed, and then complete the problems indicated from each of the corresponding sets of exercises.

- There are 4 sets of assignments and each assignment is worth 25 points. For each question in the problem sets, the work or an explanation that justify the answer must be shown to receive credit. Please note that the answers to all the odd numbered problems are shown near the end of the textbook, so check that your work is correct.
- The criteria for evaluating your work are completeness of the outlines, completeness of all the problems indicated, and detailed grading of 2 to 3 problems from each of the 4 sets on this assignment.
- Work must be done on loose-leaf paper, neatly, and in sequential order: (1) outline of important topics discussed in the section and (2) the work required to answer the corresponding set of exercises from that section.
- Work may be dropped into my mailbox at the high school on or before the date indicated for each assignment or emailed and then hand in the hard copy on or before the first day of class. If there is a problem with a deadline, please contact me at [ndiaz@nyackschools.org](mailto:ndiaz@nyackschools.org) to make a reasonable arrangement.

The first test will assess your understanding of the topics reviewed in this assignment.

#### Chapter P, Preparation for Calculus

1. **P.1 due by Monday July 16 2018:** Graphs and Models, pages 2-9, do exercises 1, 2, 11-16, 45, 47, 49, 63, 65, and 74.
2. **P.2 due by Monday July 30 2018:** Linear Models and Rates of Change, pages 10-18, do exercises 1,2, 19, 21, 25, 26, 27, 43, 49, 51, 52, 57, 59, 63, 65, 68, 69, 70, and 75.
3. **P.3 due by Monday August 13 2018:** Functions and Their Graphs, pages 19-30, do exercises 1-4, 19, 20, 22, 23, 25, 29, 33, 37, 47, 49, 51, 53, 55, 59, 61, 67, 73, 75, 77, 79, 81, 93, and 102.
4. **P.4 due by the first day of class:** Review of Trigonometric Functions, pages 31-42, do exercises 3, 7, 8, 15, 17-20, 21, 23, 29, 31-41, 55, 59, 61, 65, 73, in page 41 do 39, 40, 52, 67, 73, 80-82, and in page 43 do 1, 4, 9.

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The AP Calculus AB/BC course will be scheduled as follows for the 2018 – 2019 school year.

- The classes AB and BC will meet concurrently 4 times per week with two additional periods every cycle for the BC class.
- Weekly examinations will be administered during period 10, starting at 2: 30 PM, usually on Thursdays. Assessments are designed to last 45 minutes to one hour, but students may have up to twice the time limit for some tests. Only students who are legally absent on the test day may take a make-up. Test average is approximately 70% of report card grade. Homework and Classwork grades account for about 30% of report card grade.
- Extra help will be offered Tuesdays through Fridays at 2: 15 pm. Students are strongly encouraged to take advantage to get help from me and each other, small study groups of three or four students work best.
- During late March and April, 2019 there may be afternoon review sessions for the AP Examination if at that point time becomes a concern relative to the material required to be covered.
- The summer assignment is a series of 4 assignments to be handed in or dropped off in my school mailbox at specific dates during the months of July and August and on the first day of class. It will count as homework grades. This is material from pre-calculus that is necessary to be clearly understood in order to successfully begin calculus. The understanding of this material will be tested during the first week of class; test # 1 will cover this material.

We \_\_\_\_\_ and \_\_\_\_\_  
(Student signature) (Parent/Guardian signature)

understand the above requirements for AP Calculus AB/BC and agree to this schedule.

Summer work/textbook will be distributed upon return of this signed consent. Return this consent signed to Mr. Diaz any time before the last day of school.