Bergenfield High School
Bergenfield, New Jersey

Mathematics Department
Summer Course Work

in preparation for

PreCalculus Honors

Completion of this summer work is required on the first day of the 2019-2020 school year.

Name: ____________________________
June 2019

Dear Parents and Guardians:

Attached are the summer curriculum review materials for *PreCalculus Honors*. This booklet was prepared by the Bergenfield High School Math department and contains topics that reflect content learned in prerequisite courses. These materials must be completed and brought to class on the first day of school in September.

Your child is required to complete this booklet over the summer. A test based on the material in the packet will be given to your child during the second week of school. It will count as the first test of the year and the grade will be determined as follows:

Completion of the packet on time will count 20% of the grade
Performance on the test will count 80% of the grade.

Students will not be permitted to use calculators on this exam, therefore this packet should be completed without the use of a calculator.

Thank you for your cooperation.

Sincerely,

Jim Fasano
Principal

Carmen Archetto
Director of Mathematics K – 12
Summer Preparation for the Pre-Calculus Honors Course:

Students will be expected to read and to do the problems associated with the Prerequisite chapter in the textbook Precalculus, Graphical, Numerical, Algebraic by Demana.

For the most part, the topics contained in this chapter have been taught in previous courses that the students have taken. Prior to September, students should pace themselves and work through the assignments in each section of the chapter. Students could use the examples in the textbooks to assist in answering the problems. Answers to the odd numbered problems can be found in the back of the book to aid the student in checking his/her answers and correcting any errors he/she may make. These assignments, along with the work, are due upon return to school in September. At that time, any questions the students may have will be answered and the students will be tested on the prerequisites. This will be the first test of the marking period.

Section P.1 Real Number
   Section P.1 Exercises pp.11 – 13: 1 – 31 odd, 47 – 51 odd, 57 – 60, 67 – 72

Section P.2 Cartesian Coordinate System
   Section P.2 Exercises p. 20: 1 – 7 odd, 13, 16, 25, 28

Section P.3 Linear Equations and Inequalities
   Section P.3 Exercises pp. 29 -30: 1 – 27 odd, 31 – 49 odd, 52, 53

Section P.4 Lines in the Plane
   Section P.4 Exercises p.40: 3, 5, 15 – 25 odd

Section P.5 Solving Equations Graphically, Numerically, and Algebraically
   Section P.5 Exercises p. 50
      Solve by factoring only: 1, 3, 4
      Solve by extracting square roots (see p.45): 7, 9, 11, 12
      Solve by completing the square: 13, 14, 16
      Solve by the quadratic formula: 19, 20, 21

Section P.6 Complex Numbers
   Section P.6 Exercises pp. 57 – 58: 1 – 25 odd, 29, 33, 35, 41, 43, 47, 48

Section P.7 Solving Inequalities Algebraically and Graphically
   Section P.7 Exercises p. 64: 1, 3, 5, 9, 11, 15, 17, 19