



Class: Pre-Calculus

Teacher: Mr. Michael T. Davis, mikedavis.mathtutoring@verizon.net, cell: 301-351-6577

Dates: June 22–July 31, 2020 (6 weeks)

Time: 9:30 a.m.–12:30 p.m., 87 hours total

Textbook Used: [Glencoe Pre-Calculus](#), ISBN: 978-0076641833

Content:

- 1) Functions
- 2) Linear Functions
- 3) Quadratic Functions
- 4) Higher Degree Polynomial Functions
- 5) Rational Functions
- 6) Inequalities
- 7) Exponential Functions
- 8) Logarithmic Functions
- 9) Analytic Geometry (Conic Sections)
- 10) Trigonometric Functions
- 11) Trigonometric Equations
- 12) Triangle Trigonometry
- 13) Trigonometric Identities & Formulas
- 14) Sequences & Series
- 15) Combinatorics, and if time allows
- 16) Polar Coordinates & Complex Numbers
- 17) Vectors
- 18) Parametrics
- 19) The Logistic Function

Textbook: YOU MUST BRING YOUR TEXTBOOK TO CLASS EACH DAY. Given that the textbook is on loan, please take good care of it and maintain its pristine condition throughout the summer.

Daily Participation: You are expected to attend class daily. You will be given a daily participation grade, which will address various criteria such as timely arrival, attending class daily, having necessary supplies with you, attitude, effort, attentiveness, cooperation, remaining on task, level of involvement, asking/answering questions, and working problems on the board.

Grading: A = 90-100 (outstanding), B = 80-89 (clearly above average), C = 70-79 (average), D = 60-69 (passing but clearly unsatisfactory), F = 0-59 (not passing). Your

numeric grade is determined using several weighted categories, namely participation 20%, homework 20%, daily quizzes 40% and final exam 20%.

Materials/Supplies: Daily requirements include textbook, notebook (for daily notes and homework), writing utensil, graph paper, loose-leaf paper and graphing calculator

Daily Quiz: You will take a daily quiz. You will take occasional take-home quizzes, which you should answer without help from other people or from internet resources. You must have your textbook with you each day because many quiz questions are taken from the textbook (textbooks may not be shared during a quiz).

Final Exam: On the last day of the class, Friday, July 31, you will take a final exam with a two-and-a-half-hour time allotment. The exam will be comprehensive, covering all major units presented and discussed throughout the six weeks.

Homework: The amount of time required to properly and thoroughly complete homework assignments depends on your prerequisite knowledge and your level of understanding of the material at hand. You should write your homework solutions in a dedicated Pre-Calculus notebook. You should begin each assignment on a new page with proper identification such as page number and date due. I will check homework completion routinely. You are expected to participate by periodically displaying your homework solutions on the board. Your written work should be organized, complete, thorough, and neat. If a question requests that you graph, you should draw your graph on graph paper (not loose leaf paper) even if you use a graphing calculator to view the curve. Completion of homework assignments is itself a minimum, i.e. your individual needs may necessitate additional effort and practice.