

PRE-CALCULUS 12 OUTLINE

Text: Pre-Calculus 12 (Pearson)

*NOTE: A graphing calculator is **not** required for this course.*

Chapter 4: TRANSFORMING GRAPHS OF FUNCTIONS

- a) Translating, Reflecting and Stretching Graphs of Functions
- b) Inverse Relations

Chapter 8: TRIGONOMETRY (I)

- a) Angles in Standard Position
- b) Radian Measure

Chapter 8: TRIGONOMETRY (II)

- a) Graphing Trigonometric Functions
- b) Applications of Sinusoidal Functions

Chapter 6: Geometric Sequences and Series

- a) Geometric Sequences and Series
- b) Infinite Series and Sigma Notation

Chapter 7: EXPONENTIAL AND LOGARITHMIC FUNCTIONS (I)

- a) Analyzing Exponential Functions
- b) Solving Exponential Equations

Chapter 7: EXPONENTIAL AND LOGARITHMIC FUNCTIONS (II)

- a) The Laws of Logarithms
- b) Solving Problems with Exponents and Logarithms

Chapter 9: TRIGONOMETRIC EQUATIONS AND IDENTITIES

- a) Solving Trigonometric Equations
- b) Proving Trigonometric Identities

Chapter 1: POLYNOMIAL EXPRESSIONS AND FUNCTIONS

- a) Relating Polynomial Functions and Equations
- b) Modelling and Solving Problems with Polynomial Functions

Chapter 3: RADICAL AND RATIONAL FUNCTIONS

- a) Properties of Radical Functions
- b) Analyzing Radical Functions

Chapter 5: COMBINING FUNCTIONS

- a) Combining Functions Graphically and Algebraically
- b) Composite Functions

Chapter 10: CONICS

- a) The Circle and Parabola
- b) The Hyperbola and Ellipse

Marks

Quizzes & tests will constitute 100% of each student's mark for the term.

Marks will be assigned using a cumulative grading system. This means that each chapter is worth a specific percentage of the entire course. Term 1 will show the student's progress up until that point. Term 2 will show their progress from September until the end of Term 2. The Term 3 and the Final mark will show the student's level of mastery throughout the entire course. The Final mark is not an average of the three term marks.

Classroom Expectations and Procedures

1. Show up on time. This means sitting in your own desk when the bell rings. If you are late, enter quietly and do not disturb the class. If you are late for a quiz or test, you will not be given extra time.
2. Homework will be assigned each class and will be expected to be complete at the beginning of the next class. **If you miss class, you are still responsible for the homework.** Contact a friend from school or check my website for all homework assignments.
3. **You will not be allowed to write a missed exam unless one of your parents or guardians phones me ahead of time.** You will make up the exam at my convenience, but you should be prepared to write the exam the day you return to school.
4. Drop-in help is available before school every day and after school on Wednesdays and Thursdays. Come for extra help as needed – DO NOT wait until the day before the test!
5. Everyone treats all members of the classroom with respect and consideration.

Class website: <http://drakemath.weebly.com/>