

PRE-CALCULUS 12 OUTLINE

Text: Pre-Calculus 12 (Pearson)

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

TERM 1

Chapter 3: TRANSFORMING GRAPHS OF FUNCTIONS

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

Chapter 6: TRIGONOMETRY

- a) Angles in Standard Position
- b) Radian Measure
- c) Graphing Trigonometric Functions
- d) Applications of Sinusoidal Functions

TERM 2

Chapter 5: EXPONENTIAL AND LOGARITHMIC FUNCTIONS (I)

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

Chapter 5: EXPONENTIAL AND LOGARITHMIC FUNCTIONS (II)

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

Chapter 7: TRIGONOMETRIC EQUATIONS AND IDENTITIES

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

TERM 3

Chapter 2: RADICAL AND RATIONAL FUNCTIONS

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

Chapter 1: POLYNOMIAL EXPRESSIONS AND FUNCTIONS

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

Chapter 4: COMBINING FUNCTIONS

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

Chapter 8: PERMUTATIONS AND COMBINATIONS

- a) Fundamental Counting Principle
- b) The Binomial Theorem