

FOUNDATIONS OF MATHEMATICS 11 (2018)

UNIT ONE

SYSTEMS OF LINEAR INEQUALITIES

Lesson 1	Review Graphing Linear Equations
Lesson 2	Graphing Linear Inequalities
Lesson 3	Graphing Systems of Linear Inequalities
Lesson 4	Optimization Problems – Part I
Lesson 5	Optimization Problems – Part II
	Send-In Assignment

UNIT TWO

PROPERTIES OF ANGLES AND TRIANGLES

• properties, proofs, parallel lines, triangles

Lesson 1	Angles Formed by Lines and Transversals
Lesson 2	Angle Properties in Triangles
Lesson 3	Proofs
Lesson 4	Similar Triangles
	Send-In Assignment

UNIT THREE

NON-RIGHT ANGLED TRIANGLE TRIGONOMETRY

Lesson 1	The Cosine Law
Lesson 2	Application for the Cosine Law
Lesson 3	The Sine Law
Lesson 4	Ambiguous Case of the Sine Law
Lesson 5	Application of the Sine Law
	Send-In Assignment

UNIT FOUR

APPLICATIONS OF PROBABILITIES AND STATISTICS

Lesson 1	Data, Frequency Tables and Histograms
Lesson 2	Standard Deviation
Lesson 3	Normal Distribution
Lesson 4	Z-Scores
Lesson 5	Confidence Intervals
	Send-In Assignment

UNIT FIVE**GRAPHING QUADRATIC FUNCTIONS**

Lesson 1	Quadratic Functions-Translation
Lesson 2	Quadratic Functions Expansions, Compressions
Lesson 3	Completing the Square
Lesson 4	Applications of Quadratic Functions Send-In Assignment

UNIT SIX**GRAPHICAL SOLUTIONS TO SYSTEMS OF EQUATIONS**

Lesson 1	Review Solving Systems of Linear Equations by Graphing
Lesson 2	Solving Linear-Quadratic Systems in Two Variables
Lesson 3	Solving Quadratic-Quadratic Systems in Two Variables
Lesson 4	Applications of Graphical Solutions to Systems of Equations Send-In Assignment

UNIT SEVEN**INDUCTIVE AND DEDUCTIVE REASONING**

Lesson 1	Conjectures and Inductive Reasoning
Lesson 2	Validity and Disproving Conjectures
Lesson 3	Conjectures and Deductive Reasoning
Lesson 4	Non-Valid Proofs
Lesson 5	Solving Problems through Reasoning Send-In Assignment

UNIT EIGHT**FINANCIAL LITERACY**

Lesson 1	Simple Interest
Lesson 2	Compound Interest
Lesson 3	Type of Credit Cards
Lesson 4	Loans, Lines of Credit, and Overdraft Protection
Lesson 5	Lease, Loans, or Cash Send-In Assignment

Grading Your grade for this course will be calculated as follows:

Item	Weight
Learning Guides	50%
Unit tests	50%