

MATH 0989 Course Layout

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Textbook Section	
Module 1 - Introduction to Algebra	
0.3	Order of Operations
0.4	Properties of Algebra
Module 2 - Linear Equations	
1.1	One-Step Equations
1.2	Two-Step Equations
1.3	General Linear Equations
1.4	Solving with Fractions
1.5	Formulas
Module 3 - Graphing Linear Equations and Inequalities	
2.1	Points and Lines
2.2	Slope
2.3	Slope-Intercept Form
2.4	Point-Slope Form
2.5	Parallel & Perpendicular Lines
3.1	Solve and Graph Inequalities
3.2	Compound Inequalities
Module 4 - Polynomials	
5.1	Exponent Properties
5.2	Negative Exponents
5.4	Introduction to Polynomials
5.5	Multiply Polynomials
5.6	Multiply Special Products
5.7	Divide Polynomials
Module 5 - Factoring	
6.1	Greatest Common Factor

6.2	Grouping
6.3	Trinomials where a = 1
6.4	Trinomials where a is not 1
6.5	Factoring Special Products
6.6	Factoring Strategy
6.7	Solve by Factoring
9.4	Quadratic Formula
Module 6 - Rational and Radical Expressions	
7.1	Reduce Rational Expressions
7.2	Multiply and Divide
7.3	Least Common Denominator
7.4	Add and Subtract
7.5	Complex Fractions
7.6	Proportions
8.1	Square Roots
8.2	Higher Roots

Corresponding Video Library by Module (All available via YouTube)

Simplifying and Solving Linear Equations	Linear Equations and Inequalities	Graphing Linear Equations	Polynomials	Factoring	Rational and Radical Expressions
Order of Operations	Linear Equations	Inequalities	Exponents	GCF and Grouping	Reduce Rational Expressions
Introduction	One Step Equations	Graphing	Product Rule	Find the GCF	Evaluate
Parenthesis	Two Step Equations	Interval Notation	Quotient Rule	Factor the GCF	Reduce Fractions
Fractions	General	Solving	Power Rules	Binomial GCF	Reduce Monomials
Absolute Value	Fractions	Tripartie	Zero	Grouping	Reduce Polynomials
Simplify Algebraic Expressions	Distributing with Fractions	Graphing and Slope	Negative Exponents	Grouping with Order Change	Simplify Radicals
Evaluate	Formulas	Points and Lines	Properties	Trinomials	Prime Factorization
Combine Like Terms	Two Step Formulas	Slope from a Graph	Polynomials	a is not 1 (part 1)	Divide Exponent by Index (perfect roots)
Distributive Property	Multi Step Formulas	Slope from Two Points	Evaluate	a is not 1 (part 2)	Divide Exponent by Index (not perfect roots)
Distribute and Combine	Fractions		Add/Subtract	a is not 1 with GCF (part 1)	With Coefficient
		Equations of Lines	Multiply Monomial by Polynomial	a is not 1 with GCF (part 2)	With Variables
		Slope-Intercept Equation	Multiply Binomial by Binomial	a = 1	Rational Exponents
		Put Equation in Intercept Form	Multiply with Trinomials	a = 1 with GCF	Convert
		Equation from Graph	Multiply Monomial by two Binomials	Special Products	Evaluate
		Verticle/Horizontal Lines	Sum and Difference	Difference of Squares	Simplify (Part 1)

		Point-Slope Equation	Perfect Square	Sum of Squares	Simplify (Part 2)
		Given Two Points	Division of Polynomials	Difference of 4th powers	
		Parallel and Perpendicular	By Monomials (part 1)	Perfect Square	
		Slope	By Monomials (part 2)	Cubes	
		Equations	By Polynomials	GCF	
			Missing Terms	Factoring Strategy	
				Strategy	
				Solve by Factoring	
				Zero Product Property	
				Need to Factor	
				Make Equal to Zero	
				Simplifying Needed	
				Quadratic Formula	
				Derive (Find the Formula)	
				Using the Formula	
				Make Equal to Zero	
				No Linear Term (b=0)	