

--- WEEK 1: Systems of Linear Eqs and Ineqs ---

4.1 Solving systems graphically and numerically

4.2 Substitution method

4.3 Elimination method

4.4 Systems of linear inequalities

9.1 Systems of linear equations 3x3 (alg'ly, no sol, infinite # sols)

--- WEEK 2: Nonlinear Exprsns ---

6.1 Intro to factoring

6.2 Factoring trinomials with $a=1$

6.3 Factoring trinomials with a not equal to 1

6.4 Factoring diff sqs, PST, diff/sum cubes

7.1 Intro to rational expressions

7.2 Mult / Div of rationals

7.3 Add / Subt rationals (like denoms)

7.4 Add / Subt rationals (unlike denoms)

10.1 Radical expressions and fractional exponents

10.2 Simplify rad expressions

10.3 Operations rad expressions (add, subt, mult, rationalizing denom)

10.6 Complex numbers

--- WEEK 3: Nonlinear Eqs ---

6.6 Solving equations by factoring (quadratics)

6.7 Solving equations by factoring (higher degree)

7.6 Solving rational equations and formulas (solving rat equations, graphical and numerical solutions, solving formulas for variables, apps)

7.7 Proportions and variation (proportions, direct variation, inverse variation, joint variation)

10.5 Solving radical equations (including distance formula, $x^n=k$)

11.3 Solving quadratic equations (sq rt method, CTS, solving eq for var, apps)

11.4 Quadratic formula (including discriminant, complex solutions)

--- WEEK 4: Nonlinear Fns, Seqs, Series ---

8.4 Functions and their properties (domain, range, abs value fn, poly fns, rat fns, operations on fns)

10.4 Radical functions (sq root fn, cube root fn, power fns, modeling)

11.1 Quadratic fns and graphs (graphs of quad fns, basic transformations, more about graphing, min/max apps)

11.5 Quadratic inequalities

12.1 Composite and inverse fns

12.2 Exponential fns (including "e")

12.3 Logarithmic fns (including "log", other bases) ln?

14.1 Sequences (intro)

14.2 Arithmetic and geometric sequences

14.3 Series (intro, arith, geom, summation notation)