

MTH U121 Precalculus		
Book: Precalculus, Stewart, Redlin, Watson, 5th edition		
Sections	Assignments	Description
Sec 1.1: Fraction/Number Review	pg 10: 21-26 all, 69c, 70a	Fraction Review
	pg 11: 41, 43, 45	Interval Notation
	pg 11: 64	Absolute Value
	pg 11: 71	Repeating Decimal/Fraction
	pg 12: 75	Word Problem
Sec 1.2: Exponenets/Radicals	pg 21: 1, 3, 5, 2, 4	Convert Radical-Exponent Notation
	pg 21: 19, 21, 20	Evaluate (don't use calculator)
	pg 21: 27, 29, 39, 38, 41	Simplify expressions
	pg 22: 45, 47, 49, 52, 51	Simplify expressions
	pg 22: 53, 57, 65, 67, 70	Simplify expressions
	pg 22: 83, 85	Rationalize denominator
Sec 1.3: Algebraic Expressions and Factoring	pg 31: 1, 3, 5	Definitions
	pg 31: 7, 9, 14	Simplify and Expand
	pg 32: 21, 27, 29, 35, 31, 39, 32	Multiply and Simplify
	pg 32: 43, 45, 47	Factor out Common Factor
	pg 32: 49, 50, 51, 52, 53	Factor Trinomial
	pg 32: 55, 56, 59, 57	Use Special Formula (Time Permitting)
	pg 32: 61, 63, 62	Factor by Grouping (Time Permitting)
	pg 32: 83, 84	Simplify
Sec 1.4: Rational Expressions	pg 33: 113	Factor Special degree four
	pg 41: 7, 9, 11, 13, 15	Simplify Rational Expression
	pg 41: 17, 19, 21, 22	Multiply and Simplify
	pg 42: 29, 30, 27, 25	Divide and Simplify
	pg 42: 31, 33, 35, 37, 39	Add/Subtract and Simplify
	pg 42: 51, 53, 55, 61	Simplify Compound expression
	pg 43: 73, 75, 77	Rationalize denominator
Sec 1.5: Solve Equations Quadratic Formula	pg 43: 93	Word Problem
	pg 55: 5, 7, 13, 15, 17, 19, 22	Solve for x: (linear-ish)
	pg 55: 23, 27, 29, 30	Solve for a variable
	pg 55: 37, 39, 41, 43	Solve by Factoring
	pg 55: 45, 47, 48	Solve by Completing the Square
	pg 55: 53, 57, 55, 59	Solve by any method
	pg 55: 75, 77, 79	Solve (requires simplifying first)
	pg 56: 81, 83	Solve (requires simplifying first)
	pg 56: 86	Solve (Factor and Factor again)
	pg 56: 95, 97	Solve (absolute value - by cases)
	pg 55: 69, 71, 73	Use Discriminant to find # of solutions
pg 56: 99, 101, 107	Word Problems	
Sec 1.6: Modeling/Word Problems	pg 68: 17, 18, 19, 20	Investments (simple interest)
	pg 68: 21, 22, 24	Salaries
	pg 71: 52, 53, 54, 57, 58, 55,	Mixtures
Sec 1.8: Coordinate Geometry	pg 97: 3, 5, 7, 9, 13	Plot & Read Graphs/Distance/Midpt
	pg 98: 43, 46	Plug in and check
	pg 98: 47, 49	Read graph
	pg 99: 53, 57, 61	Make Table and Graph
	pg 99: 71, 73	Symmetry - algebraically
Sec 1.10 Lines	pg 99: 77, 79	Symmetry - graphically
	pg 120: 11, 12, 13, 14	Get Linear function from graph
	pg 121: 41, 43, 49, 45, 47	Get points and graph from equation
	pg 121: 17, 19, 21	Get equation of line (assorted)
Sec 1.11 Modeling Variation	pg 122: 61, 65, 68, 70, 72	Word Problems (assorted)
	pg 127: 1, 2, 3, 4, 8	Words to function
	pg 127: 25, 27, 29, 38, 42	Word Problems (assorted)

Sec 2.1: Functions including piecewise functions	pg 155: 1, 3, 4 pg 155: 5, 7 pg 155: 11, 13, 15 pg 155: 21, 23, 66, 69 pg 155: 29, 31, 35 pg 157: 70, 71	Change Words to functions Change function to words Evaluate functions Piecewise functions Difference Quotient Words to graph
Sec 2.2: Graphs	pg 167: 3, 11, 13, 1, 17 pg 167: 23, 25, 26 pg 168: 39, 41, 49 pg 168: 53, 54 pg 169: 83, 84, 85, 86	Make table - then graph Read graphs Graph Piecewise functions Get piecewise function from graph Given graph, describe in words
Sec 2.3: Average Rate of Change Increasing/Decreasing	pg 179: 1, 3 pg 179: 13, 15, 16 pg 179: 17, 19, 21, pg 180: 31, 32, 33, 34	Read graph for incr/decr intervals Read graph - calc Average Rate of chg Given function - get Average Rate of chg Word Problems
Sec 2.4: Transforms of Funct.	pg 190: 11, 12, 13, 14, 15, 16 pg 190: 17, 18 pg 191: 19, 20, 53, 54 pg 191: 27, 29, 32	Read graph to determine transform Match transforms to graph Graph transform Write equation from description
Sec 2.5: Quadratic/Optimization	pg 201: 7, 9, 11, 19, 21, 23 pg 201: 60, 61, 62, 63	Standard Form - find vertex, intercepts Word Problems (extrema)
Sec 2.6: Modeling with Quadratics	pg 212: 27, 28, 24	Word Problems (extrema)
Sec 3.4: Complex Numbers	pg 289: 1, 3, 5, 7 pg 289: 11, 13, 19, 17 pg 290: 25, 27, 28, 45 pg 290: 31, 33, 35, 41, 49, 51, 53 pg 290: 57, 59, 61, 63, 65, 69	Real and Imaginary Parts Add and Subtract Multiply Divide - Use conjugate Solve Quadratics
Sec 3.5: Complex Zeros of Poly.	pg 298: 31, 33, 35, 37, 39 pg 299: 67a pg 298: 1, 3, 5, 7, 9 13, 19, 23, 25, 27, 29, 28	Find polynomial with specified roots plug in complex roots Factor and find roots (assorted methods) ..(try methods from sec 1.3
Sec 3.1: Graphs of Polynomials	pg 262: 1, 3 pg 262: 11, 13, 15, 17, 19 pg 263; 43, 45 pg 262: 23, 25, 33, 35	Transforms of graphs Sketch: zeros, multiplicity, end behavior Read graph Factor and graph
Sec 4.1: Exponential Functions	pg 336: 1, 3 pg 336: 5, 9 pg 337: 15, 17, 39 pg 338: 65, 66 pg 340: 75, 77, 78, 79, 80, 81	Evaluate (may use a calculator) Make table/Graph (use calculator) Read graph to get function Word Problem - Radioactive Decay Word Problem - Compound Interest
Sec 4.2: Logarithmic Functions	pg 349: 1, 2 pg 349: 15, 19, 22 pg 360: 33, 35	Convert between Log. and Exp. Evaluate (don't use calculator) Evaluate (use calculator)
Sec 4.3: Laws of Log. Functions	pg 356: 1, 3, 5 pg 356: 13, 15, 39, 41	Evaluate (Time Permitting) Algebra of Logs (Time Permitting)

Sec 4.4: Solving Equations Make a List of the Formulas needed from sec 4.3	
	pg 366: 1, 3, 5, 7, 9, 19, 20, 23	Solve Exponential problems
	pg 367: 35, 37, 39, 41, 43	Solve Log (Time Permitting)
	pg 367: 67-74	Word Problems (Compound Interest)
Sec 4.5: Exponential growth	pg 379: 1, 2, 7, 8	Word Problem: Bacteria/Bio. Growth
	pg 379: 14, 15, 17, 19, 21	Word Problem: Radioactive Decay
Sec 6.1: Angle Measure	pg 474: 1, 3, 5, 8, 12	Convert degrees to radians
	pg 474: 13, 15, 19, 23	Convert radians to degrees
	pg 475: 49, 50, 51	Arclength problems
	pg 476: 69, 70, 71, 72	Word Problems - Arclength
Sec 6.2: Trig.Func./Right Triangl.	pg 484: 1, 5, 9, 11, 15	Trig. Values from Triangles
	pg 484: 29, 31, 33	Solve Triangle problems
	pg 485: 45, 46, 53, ??	Triangle Word Problems
Sec 7.4: Inverse Trig. Functions	pg 557: 1ab, 2ab, 7a, 4a	Find: Don't use a calculator
	pg 557: 9, 11	Find: Use a calculator
	pg 558: 53, 54, 55	Triangle Word Problems
Sec 5.1: Unit Circle - Trig.	pg 406: 1, 3, 7, 9	Points on Unit Circle
Sec 5.3: Graphs of Trig. Func.	pg 429: 3, 5, 17, 19, 23	Graph of Sine function
	pg 429: 29, 31, 39, 28, 32	With Phase Shift - Sine only
	pg 429: 41, 44, 47, 48	Get function from Graph - Sine only
Sec 9.1: Two equations - both linear and nonlinear examples	pg 642: 1, 3, 5, 4	Substitution Method
	pg 642: 9, 11, 12, 13	Elimination Method
	pg 642: 17, 19, 21	and Look at Graphs (any method)
Sec 9.2: Two linear equations	pg 649: 1, 2, 3, 5	Solve by Graphing CAREFULLY
	pg 649: 7, 9, 11	Point solutions
	pg 649: 21, 23, 22, 25	Non point solutions (Time Permitting)
	pg 650: 50-55 all	Word Problems: Mixtures/Investments
Sec 9.3: Three linear equations	pg 657: 5, 9, 10	Back Substitution
	pg 658: 15, 17, 19, 16, 18, 20	Point solutions
	pg 658: 25, 27	Non point solutions (Time Permitting)
Sec 9.4: Matrices (time permitting)	pg 673: 15, 17, 19	Point solutions (Time Permitting)
SCALE A 100-94; A- 93-90; B+ 89-87; B 86-83; B- 82-80; C+ 79-77; C 76-73; C- 72-70; D+ 69-67; D 66-63; D- 62-60; F 59-0		