Math 115 Suggested Homework

Sullivan, M. 11th edition. Algebra & Trigonometry.

Section	Homework These questions are for extra practice to help prepare you for you tests. Do the **odd** numbered questions in the given ranges. Omit all graphing utility parts.
R.5 Factoring Polynomials	1-135
R.6 Synthetic Division	1- 29
R.7 Rational Expressions	1- 95
R.8 nth Roots; Rational Exponents	1- 123
1.1 Linear Equations	1- 67, 73 - 83, 97
1.2 Quadratic Equations	1 - 99, 107, 121
1.4 Radical Equations; Equations Quadratic in Form; Factorable Equations	1 - 111
1.5 Solving Inequalities	1-107
2.1 The Distance & Midpoint Formulas	1 - 55
2.2 Graphs of Equations in Two Variables; Intercepts; Symmetry	1 - 29, 57 - 77 *omit symmetry
2.3 Lines	1 - 121, 125, 129, 139
2.4 Circles	1 - 47, 53
11.3 The Ellipse	13 - 25, 37-53, 63 - 67 *omit foci
11. 4 The Hyperbola	15-17, 25, 29-39, 47-65 *omit foci
3.1 Functions	1-105
3.2 The Graphs of a Function	1- 31
3.3 Properties of Functions	37-47, 65-73
3.4 Library of Functions; Piecewise-defined Functions	1 - 47
3.5 Graphing Techniques:Transformations	1-71, 77, 79
3.6 Building Functions	1 - 15
4.1 Properties of Linear Functions and Linear Models	1-41, 45, 49
4.3 Quadratic Functions and Their Properties	1 - 83
4.4 Building Quadratic Models from Verbal Descriptions and from Data	1 -15
4.5 Inequalities Involving Quadratic Functions	3 - 31
5.1 Polynomial Functions	15-87
5.2 Graphing Polynomial Functions; Models	5-41
5.3 Properties of Rational Functions	15 - 55
5.4 The Graph of a Rational Function	7 - 53
5.5 Polynomial and Rational Inequalities	19 -65
5.6 The Real Zeros of a Polynomial Function	11 - 19, 33 - 67, 93 - 103
6.1 Composite Functions	13 - 55
6.2 One-to-One Functions; Inverse Functions	21-71
6.3 Exponential Functions	37 - 105
6.4 Logarithmic Functions	11 - 117
6.5 Properties of Logarithmic Functions	13 - 109

Section	Homework These questions are for extra practice to help prepare you for you tests. Do the **odd** numbered questions in the given ranges. Omit all graphing utility parts.
6.6 Logarithmic and Exponential Equations	5 - 99
6.7 Financial Models	7 - 21, 27-35, 39, 41
6.8 Exponential Growth and Decay Models; Newton's Law; Logistic Growth and Decay Models	1 - 11, 23
7.1 Angles and Their Measure	11 - 57, 71 - 95
7.2 Right Triangle Trig I	23 - 73
7.3 Computing the Values of trigonometric Functions of Acute Angles	9 - 29, 49 - 61
7.4 Trigonometric Functions of Any Angle	11 - 113
7.5 Unit Circle Approach; Properties of the Trigonometric Functions	11 - 61, 81 - 89
7.6 Graphs of the Sine and Cosine Functions	11 - 81
7.7 Graphs of the Tangent, Cotangent, Cosecant, and Secant Functions	7 - 49
7.8 Phase Shift; Sinusoidal Curve Fitting	3 - 21
8.1 The Inverse Sine, Cosine and Tangent Functions	11 - 73
8.2 Inverse Trig Functions (Continued)	9 - 81
8.3 Trigonometric Equations	13 – 83
8.4 Trigonometric Identities	11 - 103
8.5 Sum and Difference Formulas	7-97
8.6 Double-angle and Half-angle Formulas	9 - 99
13.1 Sequences	9 - 79
13.2 Arithmetic Sequences	7 - 55
13.3 Geometric Sequences & Series	9 - 81