

Homework Assignments by section for Pre-Calculus I MTH-123 from *Precalculus: A Unit Circle Approach* by Ratti, 3rd edition

Section		Recommended problems (odds unless stated otherwise)
A1	The Real Numbers	1-9,85, 91, 97-133
A2	Polynomials	1-15, 17-105 every other odd
A3	Rational Expressions	3-5, 11-19, 21, 25, 29-65
A4	Radicals and Rational Exponents	1-29, 33-45 every other odd, 49-77
A6	Equations	1, 5, 9-43
A7	Inequalities	1-23, 31-51, 67-71
A8	Complex Numbers	1-37
1.1	Graphs of Equations	7, 8, 11, 12, 15-19, 31-35, 39, 43-55, 57, 58, 59, 61-99, 113, 117, 119
1.2	Lines	5, 6, 7, 8, 9-15, 17, 18, 19, 20, 21-71, 75-103, 107, 121, 129, 130, 141
1.3	Functions	1-71, 75, 77, 81-99, 109, 117, 123, 129, 131, 135, 137
1.4	Library of Functions	1-5, 6, 7, 8, 9-35, 39, 43, 47, 53-61, 89
1.5	Transformations of Functions	1, 3, 6, 7, 8, 23-34 all, 83-91, 95-111, 139
1.6	Combining & Composition	5-8 all, 9-35, 45-63, 67, 71, 75, 87-95 every other odd
1.7	Inverse Functions	5, 6, 7, 8, 9-23, 31-39, 43-63, 77, 79, 101, 113
2.1	Quadratic Functions	1, 2, 3, 4, 5, 7, 9-16 all, 17-33, 45-71, 85, 89, 91
2.2	Polynomials	3-8 all, 9-19, 23-27, 29-34 all, 35, 37, 43-61, 77, 85, 115, 117
2.3	Dividing Polynomials	4-8 all, 9-27, 39-79, 89, 97, 103, 105
2.4	Rational Functions	5-8 all, 9-25, 35-51, 53-58 all, 81-91, 95, 99, 121-125, 129
2.5	Polynomial & Rational Inequalities	5-8 all, 9-17, 21, 25, 29, 31-71
2.6	Zeros	4-8 all, 31-67
3.1	Exponential Functions	5, 8, 9-25, 33-36 all, 37, 43, 47-57, 63-81, 85, 87
3.2	Logarithmic Functions	1-4 all, 9-69, 72, 81, 89
3.3	Rules of Logarithms	1-8 all, 15, 17, 21-53, 67, 71, 73-5, 89, 99, 101, 111, 117, 121, 125
3.4	Equations	7-51, 61-79, 101, 105
7.4	Matrices	7, 8, 9-15, 19-41, 45, 49, 55, 59, 63, 67, 71
7.5	Determinants	9, 13, 17, 23, 27, 31
7.6	Partial Fraction Decomposition	9-19, 23-63 every other odd
7.7	Matrix Algebra	4, 5, 7, 9-43, 59, 67
7.8	The Matrix Inverse	1-6 all, 9-13, 19, 21, 29, 31, 35-41, 49, 67

