Lansing Community College Department of Mathematics and Computer Science
MATH122 (4 cr) Homework Assignments (<u>Precalculus</u>: Bittinger, Beecher, Ellenbogen, Penna, 5th ed.)

<u>Section</u>	<u>Problems</u>
6.1	1, 5, 7, 9, 13, 17, 19, 21, 23, 25, 27, 29, 31, 37, 43, 49, 55, 59, 63, 67, 71, 73, 77, 79, 81, 83, 85, 87, 91, 93, 95, 97
6.2	1, 3, 9, 11, 17, 19, 21, 25 ,29, 31, 33, 35, 39
6.3	1, 9, 11, 15, 19, 21, 27, 29, 33, 35, 39, 41, 45, 51, 53, 69, 71, 73, 75, 79, 83, 85, 87, 89, 97, 99, 101, 103, 105
6.4	1, 3, 5, 7, 9, 17, 23, 27, 33, 37, 45, 49, 53, 59, 65, 67, 69, 71, 73, 75, 77
6.5	1, 5, 7, 9, 11, 15, 17, 19, 23, 25, 27, 33, 37, 39, 43, 47, 49, 51, 53, 73
6.6	1, 3, 9, 11, 13, 15, 17, 18, 19, 21, 23, 25, 27, 31, 33, 35, 37, 39, 41, 42, 43, 49, 53, 59, 65, 81, 93, 97, 99
Review*	1, 3, 7, 9, 11, 13, 15, 17, 18, 19, 21, 23, 25, 27, 31, 33, 35, 39, 42, 43, 44, 45, 46, 48, 51, 53, 55, 57, 59, 61, 63, 65, 66, 68, 70, 74, 75, 77, 79, 81, 83
7.1	1, 5, 11, 13, 19, 23, 27, 31, 37, 43, 45, 47, 49, 51, 53, 55, 57, 59, 65, 67, 69, 75, 87, 89, 91, 93
7.2	1, 3, 5, 9, 11, 13, 17, 19, 23, 27, 29, 31, 33, 39
7.3	1, 3, 5, 9, 11, 13, 17, 23, 29, 51, 53, 58, 69
7.4	1, 5, 9, 11, 15, 17, 21, 25, 31, 33, 35, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 69, 81
7.5	1, 3, 5, 7, 9, 11, 13, 15, 17, 21, 27, 29, 31, 33, 37, 45, 47, 49, 53, 57, 59, 61
Review*	3, 4, 7, 11, 13, 14, 17, 18, 19, 20, 21, 22, 23, 25, 26, 29, 31, 34, 35, 37, 38,39, 41, 43, 47, 49, 51, 53, 55, 57, 61, 63, 65, 67, 70, 73, 76
8.1	1, 3, 9, 13, 17, 21, 23, 25, 27, 31, 33
8.2	1, 7, 9, 13, 17, 19, 21, 27, 29, 31, 47
8.3*	1, 3, 5, 9, 11, 13, 15, 17, 23, 25, 29, 33, 35, 37, 39, 43, 45, 47, 49, 51 (Omit roots of complex numbers.)
8.4	1, 3, 5, 7, 8, 9, 13, 15, 19, 21, 27, 31, 35, 37, 43, 49, 51, 53, 57, 59, 61, 63, 67, 73, 79, 81, 85, 92, 95
8.5	5, 9, 13, 15, 17, 19, 21, 25, 27, 29, 31, 33, 37, 39, 41
8.6	3, 5, 7, 11, 13, 15, 21, 23, 25, 27, 29, 31, 33, 39, 43, 45, 47, 49, 53, 59, 61, 63, 65, 67, 69, 71, 73, 77, 79, 83
Review*	1, 3, 4, 7, 9, 10, 13, 17, 21, 25, 31, 33, 35, 43, 45, 47, 49, 50, 53, 54, 55, 57, 60, 63, 65, 69, 71, 73, 75, 77, 79, 81, 82, 83, 85, 87, 93
9.1	1, 5, 9, 11, 13, 17, 21, 25, 37, 51, 55, 56, 59, 63, 65, 67, 69, 71
9.2*	3, 7, 9, 15, 21, 25, 27, 29, 51
9.3	1, 3, 9, 13, (19, 23, 25, 27, 33, 35, 37, 39, 43, 59, 61: use calculator's reduced row echelon form)
9.4	21, 23, 25, 27, 33, 35, 37 (matrix multiplication and its applications only)
Review*	1, 2, 5, 7, 15, 16, 17, 19, (25 use calculator), 26, 27, 28, 37, 39
10.1	1, 3, 5, 9, 13, 15, 17, 19, 21, 23, 25, 27, 31, 33
10.2	1, 3, 5, 7, 13, 17, 19, 21, 23, 25, 29, 31, 33, 37, 39, 43, 45, 51
10.3	1, 3, 5, 7, 9, 11, 13, 15, 17, 21, 25, 29, 33, 39
10.7	1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 29, 33, 35
Review*	1, 3, 7, 9, 11, 13, 15, 17, 19, 57, 59, 61, 62, 63
11.1	3, 7, 9, 13, 17, 19, 23, 25, 27, 29, 33, 35, 39, 41, 47, 51, 55, 57, 59, 63, 65, 69, 71, 73
11.2	3, 5, 9, 13, 17, 19, 21, 23, 25, 29, 31, 33, 35, 39, 41, 43, 55
11.3	1, 5, 7, 11, 13, 17, 21, 23, 25, 27, 31, 33, 35, 37, 39, 45, 49, 51, 53, 57, 59, 61, 63
11.4*	1, 3, 5, 7, 9, 13, 17, 19, 23
11.5	3, 5, 7, 11, 13, 15, 17, 21, 25, 27, 29, 33, 35, 37, 41
11.6	1, 3, 7, 9, 13, 15, 17, 19, 21, 25, 27, 29, 31
11.7	3, 9, 11, 17, 23, 27, 29, 31, 33, 35, 39
Review*	1, 3, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 24, 26, 27, 28, 29, 31, 33, 35, 37, 39, 43

You will need a graphing calculator for this course. It is your responsibility to bring the calculator with you to all classes and tests and to know how to use it. The topics in this course include how to use the TI-84 graphing calculator, angle measures of degrees and radians, trigonometric functions, unit circle, graphs of trig functions, transformations of trig graphs, inverse trig functions, solving trig equations/inequalities graphically and analytically, justifying trig identities, sum and difference identities, double angle identities, half-angle identities, laws of sines and cosines, vectors, polar coordinates, systems of equations, matrix multiplication*, conic sections, parametric equations, sequences, ∑, arithmetic and geometric series, binomial theorem, math induction*, counting, permutations, and combinations.

*optional.