

MAT150 Homework Assignments (Summer, 2007)

1.1 Functions	15 – 100 (5n), C7 & 8 2, 5	38, 79, 86, 102, C8-#4
1.2 Graphs of Functions	9- 21 odd 27, C8 1	#6 (explain),29, 33, 44, C8-2
1.3 Properties of Function	1 – 31odd, 39, 40, 53, 65, C9-2	27, C9-1 a, c, e, 72
1.4 Library of Function	9 – 45 (3n):	22, 25, 37, 41, 60
1.5 Transformations	7– 18,21-33 odd, 35 – 60 (5n),C16-#2	C16-#1 a, b, e, f, g
1.6 Mathematical Models	1, 5, 7, 11, 25	2, 12, 16, 24, 32
2.1 Linear Functions	3 – 57 (3n), C18/19 #1 b,d,f ,#2	16, 29, C18/19 a,c,g
2.3 Quadratic Functions	7-23 eoo ,29 – 43 odd ,51-89 eoo	18, 32, 46, 71, C-21 #2 a
2.4 Properties of Quadratics	11-18, 21 – 51 (3n), 55, 59, 61, 81	7, 48, 65, 67, 80
2.5 Inequalities	1-23 odd, 27, 39	14, 17, 24, 31, 40
2.6 Quadratic Models	1,3,7,11,19,27	4, 9 a&b, 26 , C23 #1
2.7 Complex Zeros	3-27 eoo	4,5,16,24,3 read A82 – A87
2.8 Absolute Value Equations	C-26 #1thru#5 parts a & c	C-26 #1 thru #5 part b only. Read The supplement C-24 &C-25.
3.1 Polynomial Function Models	5 - 19, 35 - 43 odd, 53, 61, 87	4, 20, 51, 64, 88 (be complete on this one)
3.2 Properties/Rational Functions	Functions 11 – 21 odd, 23, 27, 41, 43, 49	18, 21, 43 (graph also), 45 (graph also), 50 (graph also)
3.3 Graphing Rational Functions	Graph 23, 27, 34: 47, 48, 49	30, 33, 48, 50, 74 (graph your function with grapher)
3.4 Polynomial Inequalities	C-32 - 38 all pbs in #1	Page 235 23, 31, 33, 39,55
3.5 Real Zeros	5, 17, 21, 29, 41, 53, 57, 67, 77, 110	49, 59, 65, 89, 103
3.6 Complex Zeros	3, 6, 7, 15, 19, 27, 33, 35, 43	4,11, 15, 29, 33
4.1 Composite Functions	1,2,5, 7,9,35, 39, 41, 49, 55,63	8, 10, 42, 57, 69
4.2 One-to-One Functions	3 – 66 (3n), 77, 89, 95	42, 48, 100,C-43 #1, #6 b& c
4.3 Exponential functions	3-33 (3n), 45, 55, 57-75 oddC-45 #1	65, 71, 76, 99, 112
4.4 Logarithm Functions	5– 110 (5n), 125, 127	20, 46, 53, 97, 104
4.5 Properties of Logarithms	C-47 1-13 odd	Page 318 17, C-47 #2, 6,10, 14
4.6 Log & Exp Equations	Equations 5- 60 (5n), 63 (graph!), 87, C-50 #7	9, 16, 22, 39, C-51 #8
4.7 Compound Interest	3, 9, 15, 31, 45, 49, 56	7, 32, 44, 47, Derive the formula in #56 using the natural logarithm.
4.8 Exponential Models	3, 7, 13, 17, 23, 25	5, 11, 16, 17, 21
5.1&2 Conics&The Parabola	6, 8, 11 - 18, 19 - 35 odd, 39,45	65 21, 47, 51, 69, 73
5.3. The Ellipse	15 - 16, 17 - 31 odd,39, 41, 49, 51	23, 25, 35, 47, 75
5.4 The Hyperbola	13 - 16, 17 - 33 odd, 35, 39, 43,57	17, 27, 34, 53, 57
6.1 Systems of Linear Eq.	3 – 6, 9, 13, 17 - 53 eoo, 63, 69, 75	18, 30, 35, 49, 68
6.2 Matrices	2 - 4, 5 - 60 (5n),77	53,70,75,78, web application
6.4 Matrix Algebra	3 – 71 (3n) (graphing calculator	Worksheet
6.5 Partial Fractions	5-11odd, 13, 19, 27, 37, 46	14, 19, 21, 29, 46
7.1 Sequences	9 - 45 eoo, C-56 #1,4	26, 47, 57, 89, C-57 #5 f
7.2 Arithmetic Sequences	3, 9, 11, 15, 17, 21, 31, 35,34, 51	8, 19, 23, 33, 52
7.3 GeometricSequences/Series	9-66 (3n), 73, 81	17, 50, 65, C-60 #3, #6
7.4 Induction & More Series	1, 9, 11, 14, 32	3, 7, 12, 13, 32
7.5 The Binomial Theorem	2, 4, 5-41 eoo	5, 7, 15, 34, 36

eoo – every other odd; (3n) multiples of 3. The bolded problems are mandatory.

Follow the format for HW shown here. Follow it closely and it will help keep you organized.

Warm-up Problems

Name _____

Sec.

(These will be several review type problems designed to help you solidify the concepts.)

Notes for the day.

(Take good notes! All examples and discussions are fair game on the test.)

Basic Homework

(The suggested problems are listed in the table above. YOU MUST strive to do all of these problems well. Simply doing the bolded problems is not near enough. Math is a doing event and takes hard work and lots of practice. I encourage you to develop some relationships within the class.)

BOLDED PROBLEMS FOR GRADING – All problems neatly identified and in their proper order. These 5 problems will be graded for accuracy. Do your best on these.