

**Math 100 MTWRF**  
**College Algebra**

**Text:** *Algebra: Form and Function*, Preliminary Edition, McCallum, Connally, Hughes-Hallett, Wiley, 2008

**Prerequisites:** ACT score of at least 19; Grade of "C" or better in MATH 092 or equivalent course; or Placement in MATH 100 by the Mathematics Department Placement Exam. **TI-83 Graphics Calculator is required.**

Study groups, tutoring, and other related services are located in The Learning Center in Lee Hall.

**Wiley Plus Exercises (WP) are to be done online.**

Lesson	Section and Topic	Assignment
1	Basic review	p. 61: 6, 7, 20, 24, 26, 29, 32, 33, 35, 37, 41, 43, 70-73, 75
2	2.1 What is a Function?	4, 10, 13, 14, 16, 17, 20, 24, 25, 29, 36, 38, 40, 41 <b>WP:</b> 2,6,8,12,15,21,22,26
3	2.2 Functions and Expressions	3, 7, 9, 11, 14, 17, 18, 19, 21
4	2.2 Functions and Expressions	22 <b>WP:</b> 5,25,29,30
5	2.3 Functions and Equations	2, 4, 5, 6, 7, 9, 10, 14, 17, 18
6	2.3 Functions and Equations	21, 24, 26, 29, 31, 32 <b>WP:</b> 1,15,22,29,32
7	2.4 Functions and Change	1, 3, 4, 9, 17, 19
8	2.4 Functions and Change	23, 24, 29 <b>WP:</b> 5,6,14,17,21
9	2.5 Functions and Modeling	1, 3, 4, 8, 9
10	2.5 Functions and Modeling	21,23,24,25,26,28,29, 30, 32, 41 <b>WP:</b> 7,10,11,15,19,20,33,38
11	Chapter 2 Review	
12	<b>Test 1: Chapter 2</b>	
13	3.1 Linear Functions	6, 9, 10, 11, 17, 18, 20, 22
14	3.1 Linear Functions	27, 28, 32, 42, 47 <b>WP:</b> 1,5,12,15,26,36,37,40,48,49
15	3.2 Different Forms of Linear Functions	2, 5, 7, 9, 11, 18, 41, 44, 45, 48, 50, 53 <b>WP:</b> 6,17,20,23,31,36,49,56,61
16	3.3 Linear Equations	24, 28, 35, 43, 44, 46 <b>WP:</b> 1,21,42,49
17	3.4 More on Equations of Lines	1, 2, 15, 20, 27, 28, 40, 41, 48, 51 Download worksheet 1
18	3.4 More on Equations of Lines	59, 61, 62, 64, 65, 68, 97 <b>WP:</b> 5,39,52,58,67,70,81,85,96,98
19	3.5 Modeling with Linear Functions	7, 10, 12, 14, 29 Worksheet 1
20	3.5 Modeling with Linear Functions	3, 8, 40, 45, 47; 52 and 53 on calculator <b>WP:</b> 5,13,19,23,26,30,31,36,37,42
21	3.6 Systems of Linear Equations	2, 4, 13, 23, 27
22	3.6 Systems of Linear Equations	30, 32, 38, 44, 51 <b>WP:</b> 21,25,28,46
23	Chapter 3 Review	
24	<b>Test 2: Chapter 3</b>	
25	4.1 Power Functions	12, 18, 20, 28, 29
26	4.1 Power Functions	31, 32, 33, 38 <b>WP:</b> 13,16,17,22,35,37
27	4.2 Expressions for Power Functions	12, 15, 16, 17, 20, 21, 23, 24, 27, 28
28	4.2 Expressions for Power Functions	32, 35, 37, 38, 39, 42, 44, 62 <b>WP:</b> 18,25,36,63
29	4.3 Equations Involving Powers	4, 12, 17, 18, 19, 23, 26
30	4.3 Equations Involving Powers	43, 47, 49 <b>WP:</b> 11,14,24,44
31	4.4 Modeling with Power Functions	5, 7, 8, 12
32	4.4 Modeling with Power Functions	21, 23, 30, 32 Page 185: 62 <b>WP:</b> 9,10,18,25

Lesson	Section and Topic	Assignment
33	5.1 Domain and Range	6, 9, 10, 13, 18, 19
34	5.1 Domain and Range	20, 24, 26, 29, 30, 32, 38, 39 <b>WP:</b> 7,14,16,23,28,42
35	5.2 Composing and Decomposing Functions	3, 11, 13
36	5.2 Composing and Decomposing Functions	17, 22, 28, 29, 31, 33 <b>WP:</b> 9,20,21,26
37	5.3 Shifting and Scaling	1, 3, 5, 7, 9, 12, 14
38	5.3 Shifting and Scaling	18, 19, 23, 27, 31 <b>WP:</b> 16,22
39	5.4 Inverse Functions	2, 3, 5, 9, 11, 12, 17, 19
40	5.4 Inverse Functions	23, 25, 26, 29, 30, 31, 32 <b>WP:</b> 1,4,7,13
41	Test 3 Review	
42	<b>Test 3: Chapters 4 and 5</b>	
43	6.1 Quadratic Functions	1, 3, 9, 10, 11, 12
44	6.1 Quadratic Functions	14, 19,21, 23, 25 <b>WP:</b> 8,18,22,29,30,31
45	6.2 Working with Quadratic Functions	1, 6, 7, 16, 34, 45, 49, 52, 54
46	6.2 Working with Quadratic Functions	57, 59, 60, 62, 67, 73 <b>WP:</b> 5,8,21,26,29,31,35,48,63,66
47	6.3 Quadratic Equations	5, 6, 7, 14, 25
48	6.3 Quadratic Equations	54, 55, 61, 69 Download Worksheet 2 <b>WP:</b> 17,27,45,46,63,65
49	6.4 Solving Quadratic Equations by Factoring	7, 8, 13, 37, 41, 47, 49, 57, 61 Worksheet 2 <b>WP:</b> 10,16,22,24,39,40,43,59
50	Chapter 6 Review Problems	
51	<b>Test 4: Chapter 6</b>	
52	7.1 Exponential Functions	1, 8, 14, 18, 20, 22, 32, 38, 41 <b>WP:</b> 3,7,24,29,31,35
53	7.2 Exponential Functions	15, 16, 20, 21, 26, 33, 40, 41, 46, 48 <b>WP:</b> 18,19,22,23,25,34,39,42,47
54	7.3 Interpreting the Exponent	7, 8, 20, 23, 25, 27, 38, 43, 45, 47, 49 54 <b>WP:</b> 6,9,21,22,28,41,44
55	7.4 Exponential Equations	9, 11, 20, 23, 24, 26, 28, 32, 55, 59 <b>WP:</b> 10,18,30b,57
56	7.5 Modeling with Exponential Functions	7, 9, 26, 27, 33, 36, 37 Download worksheet 3 <b>WP:</b> 8,10,13,28,30,37,39
57	7.6 Exponential Functions and Base e	1, 3, 5, 7, 9, 11, 16, 19 Worksheet 3
58	Chapter 7 Review Problems	
59	8.1 Introduction to Logarithms	10, 19, 25, 29, 30, 33, 45, 49, 50, 52 <b>WP:</b> 17,22,26,27,47
	8.2 Solving Equations using Logarithms	10, 12, 17, 25, (33 ,37 ,39 solve graphically),41, 42, 43, 44,49, 50, 54 Download Worksheet 4 <b>WP:</b> 7,9,20,29,46,52
60	8.3 Applications of Logarithms to Modeling	3, 9, 20, 21, 23 Worksheet 4 <b>WP:</b> 1,7,12,18,25,27
	8.4 Natural Logs and Logs to other Bases	1, 2, 4, 7, 10, 11, 13, 14, 19, 22, 24, 26, 27, 29, 30,34, 35, 36
61	Chapter 8 Review Problems	
62	<b>Test 5: Chapters 7 and 8</b>	Download Worksheet 5
63	Exploring Polynomials	Worksheet 5 do in class
64	9.3 Polynomial Equations	13, 17, 21, 25, <b>WP:</b> 15,19,27
	9.4 Long Run Behavior of Polynomials	3 <b>WP:</b> 1,4,10,13,18
65	10.1 Rational Functions	11, 13, 15 <b>WP:</b> 9,17,19,21,23
66-69	<b>Review For Final Exam</b>	

**Emergency Evacuation Procedure:** A map of this floor is posted near the elevator marking the evacuation route and the **Designated Rescue Area**. This is an area where emergency service personnel will go first to look for individuals who need assistance in exiting the building. Students who may need assistance should identify themselves to the teaching faculty.

Last updated 21 August 2009.