

Math 105 TR
College Algebra

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

Prerequisites: ACT score of at least 21; or Placement in MATH 105 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 WP: 2,6,8,12,15,21,22,26
3	2.2 Functions and Expressions	3, 7, 9, 11, 14, 17, 18, 19, 21, 22 WP: 5,25,29,30
	2.3 Functions and Equations	2, 4, 5, 6, 7, 9, 10, 14, 17, 18, 21, 24, 26, 31 WP: 1,15,22,29,32
4	2.4 Functions and Change	1, 3, 4, 9, 19, 23, 24, 29 WP: 5,6,14,17,21
	2.5 Functions and Modeling	1, 3, 4, 8, 9, 21, 23, 24, 25, 26, 28, 29, 30, 32, 41 WP: 7,10,11,15,19,20,33,38
5	Chapter 2 Review	
	3.1 Linear Functions	6, 9, 10, 11, 17, 18, 20, 22, 27, 28, 32, 42, 47 WP: 1,5,12,15,26,36,37,40,48,49
6	Test 1: Chapter 2	
7	3.2 Different Forms of Linear Functions	2, 5, 7, 9, 11, 18, 41, 44, 45, 48, 50, 53 WP: 6,17,20,23,31,36,49,56,61
	3.3 Linear Equations	24, 28, 35, 43, 44, 46 WP: 1,21,42,49
8	3.4 More on Equations of Lines	1, 2, 15, 20, 27, 28, 40, 41, 48, 51, 59, 61, 62, 64, 65, 68, 97 Download worksheet 1 WP: 5,39,52,58,67,70,81,85,96,98
	3.5 Modeling with Linear Functions	7, 10, 12, 14, 29 Worksheet 1 38, 40, 45, 47; 52 and 53 on calculator WP: 5,13,19,23,26,30,31,36,37,42
9	3.6 Systems of Linear Equations	2, 4, 13, 23, 27, 30, 32, 38, 44, 51 WP: 21,25,28,46
	4.1 Power Functions	12, 18, 20, 28, 29, 31, 32, 33, 38 WP: 13,16,17,22,35,37
10	4.2 Expressions for Power Functions	12, 15, 16, 17, 20, 21, 23, 24, 27, 28, 32, 35, 37, 38, 39, 42, 44, 62 WP: 18,25,36,63
	4.3 Equations Involving Powers	4, 12, 17, 18, 19, 23, 26, 43, 47, 49 WP: 11,14,24,44
11	4.4 Modeling with Power Functions	5, 7, 8, 12, 21, 23, 30, 32 Page 185: 62 WP: 9,10,18,25
12	Chapter 3 Review	
	Chapter 4 Review	
13	5.1 Domain and Range	6, 9, 10, 13, 18, 19, 20, 24, 26, 29, 30, 32, 38, 39 WP: 7,14,16,23,28,42
	Test 2: Chapters 3 and 4	
14	5.1 Domain and Range (cont.)	
	5.2 Composing and Decomposing Functions	3, 11, 13, 17, 22, 28, 29, 31, 33 WP: 9,20,21,26
15	5.3 Shifting and Scaling	1, 3, 5, 7, 9, 12, 14, 18, 19, 23, 27, 31 WP: 16,22
	5.4 Inverse Functions	2, 3, 5, 9, 11, 12, 17, 19, 23, 25, 26, 29, 30, 31, 32 WP: 1,4,7,13
16	6.1 Quadratic Functions	1, 3, 9, 10, 11, 12, 14, 19,21, 23, 25 WP: 8,18,22,29,30,31
	6.2 Working with Quadratic Functions	1, 6, 7, 16, 34, 45, 49, 52, 54, 57, 59, 60, 62, 67, 73 Download Worksheet 2 WP: 5,8,21,26,29,31,35,48,63,66
17	6.3 Quadratic Equations	5, 6, 7, 14, 25, 54, 55, 61, 69 WP: 17,27,45,46,63,65
	6.4 Solving Quadratic Equations by Factoring	7, 8, 13, 37, 41, 47, 49, 57, 61 Worksheet 2 WP: 10,16,22,24,39,40,43,59
18	Chapter 5 and 6 Review	
	7.1 Exponential Functions	1, 8, 14, 18, 20, 22, 32, 38, 41 WP: 3,7,24,29,31,35
19	Test 3: Chapters 5 and 6	

Lesson	Section and Topic	Assignment
20	7.2 Exponential Functions	15, 16, 20, 21, 26, 33, 40, 41, 46, 48 WP: 18,19,22,23,25,34,39,42,47
	7.3 Interpreting the Exponent	7, 8, 20, 23, 25, 27, 38, 43, 45, 47, 49, 54 WP: 6,9,21,22,28,41,44
21	7.4 Exponential Equations	9, 11, 20, 23, 24, 26, 28, 32, 55, 59 WP: 10,18,30b,57
	7.5 Modeling with Exponential Functions	7, 9, 26, 27, 33, 36 Download worksheet 3 WP: 8,10,13,28,30,37,39
22	7.6 Exponential Functions and Base e	1, 3, 5, 7, 9, 11, 16, 19 Worksheet 3
	8.1 Introduction to Logarithms	10, 19, 25, 29, 30, 33, 45, 49, 50, 52 WP: 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 WP: 7,9,20,29,46,52
23	8.3 Applications of Logarithms to Modeling	3, 9, 20, 21, 23 Worksheet 4 WP: 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 Download Worksheet 5
24	Chapter 8 Review	
	Exploring Polynomials	Worksheet 5 do in class
25	Test 4: Chapters 7 and 8	
26	9.3 Polynomial Equations	13, 17, 21, 25, WP: 15,19,27
	9.4 Long Run Behavior of Polynomials	3 WP: 1,4,10,13,18
	10.1 Rational Functions	11, 13, 15 WP: 9,17,19,21,23
27	Review For Final Exam	

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.