

Math 105 TR
College Algebra

Text: *Algebra: Form and Function*, McCallum, Connally, Hughes-Hallett, Wiley, 2010

Prerequisites: ACT score of at least 21; or Placement in MATH 105 by the Mathematics Department Placement Exam.

WILEY PLUS and TI-83 Graphics Calculator are 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	Chapter 1 Review: 1,2,9,17,19,20,26,61,99 Chapter 2 Review: 3,23,35,68,71 Chapter 3 review: 3,11,21,25,30-34,36,37,38
2	4.1 What is a Function? 4.2 Functions and Expressions	3,4,14,15,18,20,23,24,25,28,29,31,32,34,35,38,39,45,46 Sections 4.1 WP Online (2,8,11,22,25,27,43) 6,7,11,12,15,20,21,22,24,27,28 Sections 4.2 WP Online (14,19,23,25,31)
3	4.3 Functions and Equations 4.4 Functions and Change	1,10,11,12,13,14,15,17,19,20,21,22,27,29,32 Sections 4.3 WP Online (4,8,16,23,25,31) 6,9,10,12,18,19,23,24,25,29,30 Sections 4.4 WP Online (3,5,12,13,14)
4	4.5 Functions and Modeling 8.1 Domain and Range; Interval Notation	3,4,7,8,13,20,22,23,24,25,27,29,32,33,34,40 Sections 4.5 WP Online (5,10,15,19,39) 4,5,7,8,9,10,13,14,16,19,20,28,29,30,31,33,34,36,37,39,41 Use Interval Notation Section 8.1 WP Online (11,12,17,21,22,23,26)
5	8.2 Composing and Decomposing Functions 8.3 Shifting and Scaling	7,9,11,12,13,15,20,21,22,27,30,31,34,35 Section 8.2 WP Online (4,16,33) 1,3,5,11,12,13,14,17,18,19,22,32,37 Section 8.3 WP Online (7,10,15,21,30,33,36,38,45)
6	Chapter 4 Review Chapter 8 Review	9,10,11,12,14,17,22,30,31,32,33,35,38,39,40,42,45,49,54,58,63,68,69,70,71,76,78,81: omit 59-61, 64-67; WP:1,3,4,7,10,13,15,18,21,23,25,28,36,41,43,55,74,77 3,4,5,6,8,11,13,16,17,18,19,20,21,23 - 30,32,35,36,38,41,42,43,45,47,48,52 - 62,64
7	Test 1 Chapter 4 and 8.1,8.2,8.3	
8	5.1 Linear Functions 5.2 Working With Linear Expressions Worksheet 1	2,11,14,20,21,30,32,35,36,37,40,42,43 Section 5.1 WP Online (10,12,23,33,41) 4,10,11,14,16,22,24,26,28,31,32,34,35,48,52,55,56,58 Section 5.2 WP Online (6,7,13,18,21,25)
9	5.3 Solving Linear Equations 5.4 Equations for Lines in the Plane	1,2,4,7,8,12,34,35,37,39,42,53,54 Section 5.3 WP Online (3,5,16,32,51,54,56) 10,20,33,34,36,47,49,53,54,55,56,60,63,67 Section 5.4 WP Online (3,8,14,36,64,68)
10	5.5 Modeling with Linear Functions 5.6 Systems of Linear Equations Chapter 6 Review on Wiley Pus	4,5,9,11,14, Worksheet 2 Section 5.5 WP Online (2,8,10,15,17,19,20) 22,28,30,32,43,46 Section 5.6 WP Online (3,14,24,25,40,42,48) Chpt 6 WP Online: Sec 6.1: 24,29,49,54,55,56,65,74,75,80,82,93,101; Sec. 6.2: 3,6,8,11,13,14,15,21;
11	7.1 Power Functions 7.2 Working With Power Functions	14,17,18,30,32,33 Section 7.1 WP Online (7,15,16,19,29,31) 17,18,21,26,38,39,41,45,48,53,54,70 Section 7.2 WP Online (3,5,7,8,10,24,40,42,43)
12	7.3 Solving Power Equations 7.4 Modeling with Power Functions Chapter 5 Review	4,10,17,43,46,47,48,49,54,56,69,75,76 Section 7.3 WP Online (11,12,19,44,50,52,61) 1,3,5,8,10,11,13,17,21,28,30 Section 7.4 WP Online (7,14,19,29) Chapter 5 Review 3,4,5,6,7,8,9,10,13,14,15,17,25,26,29,34,37,56,57,59,61,65,66,86,88,92,97,98,99, 102,104,111,112,114,115,116,117,119,121,122,123,125,128,131,132,157,158,161,171
13	Chapter 6 Review Chapter 7 Review 10.1 Exponential Functions	Chapter 6 WP Online Review: 12,24,29,48,50 Chapter 7 Review 6,10,12,15,17,20,24,26,27,28,31,34,37,40,41,60,61 8,9,12,14,15,17,18,21,22,24,25,26,32,35 Section 10.1 WP Online (6,7,11,23,27,28,29,33,34,37)
14	Test 2 Chapters 5,6 and 7	
15	10.2 Working With the Base of an Exponential Expression 10.3 Working With the Exponent of an Exponential Expression	7,10,11,13,16,17,25,29,32,33,34,37,42,43,44,46,47,51 Section 10.2 WP Online (3,4,9,13,18,20,22,23,26,38,39,45,49) 3,5,7,9,21,27,29,38,39,40,42,43,45,47 Section 10.3 WP Online (2,6,8,22,25,37,41,46,51)
16	10.4 Exponential Equations 10.5 Modeling with Exponential Functions	5,13,14,19,21,22,24,27,31,32 Section 10.4 WP Online (4,6,17,19a,25,26,29) 5,9,25,26,29,32,33,37,38,39,Worksheet 4 Section 10.5 WP Online (2,7,8,23,28,35)

Lesson	Section and Topic	Assignment
17	10.6 Exponential Functions and Base e	4,5,8,9,16, Worksheet 5 Section 10.6 WP Online (1,3,6,10,15,23)
	11.1 Introduction to Logarithms	4,19,23,26,29,31,34,45,71,73,75 Section 11.1 WP Online (1,11,17,20,22,27,70,72)
	11.2 Solving Exponential Equations using Logarithms	24,37,38,47,49,51,56,57,59,60,61,63 Section 11.2 WP Online (6,9,10,45,46,48,50,58)
18	11.3 Applications of Logarithms to Modeling	5,20,23,25 Section 11.3 WP Online (6,11,12,18,19,24,27,28)
	11.4 Natural Logs and Logs to other Bases	3,7,11,12,17,19,22,36,37,38,39,42 Section 11.4 WP Online (6,14,15,18,20,26,40,41)
19	Chapter 10 Review	1,2,3,5,7,9,11,19,20,25,26,29,30,31,34,35,36,37,39,46,55,57,59,61,63,64,65, 66,67,68,70,72,74,75,76,82,83
	Chapter 11 Review	4,9,10,13,43,49,51,59,64,68,69,79,93,98,102,115,117,149,151,153,156,157,162,164
20	Test 3 Chapters 10 and 11	
21	9.1 Quadratic Functions	1,3,5,10,12,21,25,26,27,30,31 Section 9.1 WP Online (2,4,7,8,18,22,23,24,29,32)
	9.2 Working with Quadratic Functions	1,3,4,6,7,8,10,13,17,24,27,35,37,40,44,51,55,56,57,58,62,65,66,67 Section 9.2 WP Online (2,5,14,34,46,54,61,64)
22	9.3 Quadratic Equations	13,15,18,23,30b,34b,40b,47,56,60,62 Section 9.3 WP Online (1,5,7,16,19,46,54,64)
	9.4 Solving Quadratic Equations by Factoring	9,11,13,27,30,32,35,37,43,46,47,57,61,67 Worksheet 3 Section 9.4 WP Online (10,18,24,29,38,39,41)
23	Worksheet 6	
	12.1 Polynomial Functions	Section 12.1 WP Online (24,28)
	12.3 Solving Polynomial Functions	7,11,12,21,31,35 Section 12.3 WP Online (22,24,26,49)
	12.4 Long Run Behavior of Polynomials	6,9,12,13,15,19 Section 12.4 WP Online Exercises (3,5,11,14)
24	Chapter 9 Review	Chapter 9 Review 5,8,10,12,15,18,19,22,33,37,39,40,44,45,49,51,53,54,66,67,84,85,86,88,89, 91,92,93,95-99,101,103,104,113,114,omit 70-83
	Chapter 12 Review	Chapter 12 Review 11,17,22,31,32,33,34,35,36,53,55,59,61,62,80,81,82,83
25	Test 4 Chapters 9 and 12	
26	8.4 Inverse Functions	6,11,12,14,16,17,18,19,20,21,26,27,31,32,34 Section 8.4 WP Online (7,8,13,15,24,29,30)
	13.1 Rational Functions	5,9,16,17,19,31 Section 13.1 WP Online (7,15,26,27)
27	Review for Final	

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Last updated 27 December 2011.