

Math 110 TR
Pre-Calculus, Trigonometry and Function Theory

Text: *Precalculus: Functions and Graphs*, 3rd edition, Mark Dugopolski, Pearson, 2009

Prerequisites: a) Math 109 with a grade of "C" or better; b) Math ACT of at least 25; or c) Sufficient score on one of the department's placement exams. Please be sure that you satisfy one of these requirements. **A graphing calculator is required.** A TI-83, TI-86, TI-89 or TI-92 is strongly recommended.

Tutoring is available in Lee Hall.

Lesson	Section and Topic	Assignment
1	5.1 Angles and Their Measure	1,3,10,11,15,16,24,25,29,33,35,39,41,43,48,49,51,55,61,63,65,69,72,83,85,89
2	5.1 Continued	91,93,97,100,102,105,110,112,115
3	5.2 Sine and Cosine	1-3,8,10,12,16,17,29,31,37,39,40,49,50,51,54,55,59,61,63,70,73,76,79,80,89,90,93,94,100
4	5.3 Graphing Sine and Cosine	1-6,9,10,13,15,19,20,24,25,28,33,37,38,41,43,47,48,56,59,73-75,77,79,83,85,89,92,94
5	5.4 Other Trig Functions	1,2,5,8,11,16,21,29,31,35,40,51,58,67,70,89,92
	5.6 Right Triangle Trig	3,6,9,13,23,26,28,30,42,43,45,47,48,50,51,56,64
6	5.5 Inverse Trig Functions	1-3,6-10,13,14,17,19,20,27,29,30,33,34,38,49,52,55,58,65-69,71,72,81,82
7	6.1 Basic Identities	1,2,4,5,8,11,13-15,23-25,27,31,32,35-37,39,40,43,45,87,88,90,91,94,95,97,99,100,103,104
	Chapter 5 Review	Chapter 5 Test 1-9,12-16,21-28
8	TEST 1	Chapter 5
9	6.2 Verifying Identities	1-4,6,7,21,23,26-30,32,35,36,41,42,47-52,57,60,62,65,75,77,87,89,90,95,96
10	6.3 Sum and Difference	1,3,4,5-8,12-15,18,19,23-26,31,32,36,37,39,41,46-48,50,54,63-66,74-76,81,82,84,89,91,95,96
11	6.4 Double angles	1-4,23,24,27,28,51-53,55,57,58,75,76,78,81,82
12	6.6 Trig Equations	1-4,7,8,11,15,16,19,20,22-25,27,30-32,37-39,42,47,48,63-66,73,75,83,84,89,90,97,99,100,107,109,110
13	Chapter 6 Review	Chapter 6 Test 1-6,9-12,16
14	TEST 2	Chapter 6
15	7.1 Law of Sines	1,4-6,8-10,13,15,20,21,23,26,29,32,35,38,42
	7.2 Law of Cosines	2,3,5,7,8,15,16,18,20,23,25,26,31-36
16	7.2 Continued	39,40,41,44,51,56
	7.3 Vectors	1,3-5,13,16,19,23,24,33,34,59,62,75,78,80
17	7.3 Continued	85,88,89,91,96,101,103,104,107
18	7.4 Complex Numbers	1,4,7,10,13,14,16,19,20,22,25,29-31,33,41,42,45-48,51,52,71-73
	7.5 Complex Powers and Roots	1-3,5,6,11,12,17,18,23,24,27-30,33,38,42,45,46,51
19	7.6 Polar Coordinates	1-7,10,11,14,15,21,24,27,32,33,36,37,40,45,46,55,57,60,61,69,75,76,78,81,85,87-90,93,96,97
20	7.7 Parametric Equations	1,2,5,6,13-15,18,29-31,35-38
	Test 3 Review (7.1-7.6)	Chapter 7 Test 1-5,9,10,12-16,18-20,22,23,26
21	TEST 3	
22	9.1 Solving Systems with Matrices	1-6,7,9,10,13,15,16,19,21,23-26,29,34 (Solve with calculator) 41,48,52,53-55,58,63
23	10.1 Parabola	1-3,6,7,9-12,17,19-21,23,24,27,29,32,34,37,41,42,47,48,51,54,55,63,64,69,70,73-77
24	10.2 Ellipse and Circle	1,4-6,12,13,18-21,24,25,28,33,34,37-40,43,45,47,50,55,56,67-70,72,75,77-80,82,83
25	10.3 Hyperbola	1,3,6,7,9,16,17,19,22,25,27,28,31,34,35,38,41,42,48-50
26	Test 4 Review (7.7,9.1,10.1-10.3)	Rework some homework from these sections
27	TEST 4	
28	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 17 August 2008.