

<b>COURSE:</b>	<b>COLLEGE TRIGONOMETRY (MATH-1210)</b>
<b>TEXTBOOK:</b>	Trigonometry (5th Ed.) — by McKeague/Turner— With the purchase of a <b>new</b> text, students receive: 1) "A Digital Video Companion" CD-Rom — short video lessons, tutorial instruction and practice problems (Should be available with <b>used</b> book also.) 2) Access to "BCA" interactive web-based tutorials 3) Access to "vMentor"—live, online, whiteboard-instructor tutoring.
<b>SOLUTIONS MANUAL:</b>	A <u>Student's Solution Manual</u> (optional) is available for use in the Lab or may be purchased in the bookstore. It contains worked-out solutions to the odd-numbered exercises in the book's Problem Sets and to every exercise in the Chapter Tests.
<b>VIDEO CASSETTES:</b>	Ten- to twenty- minute videotape lessons for each section of the textbook featuring the author, is available at the Main Campuses. As you view each lesson you should take notes and ask questions as needed, the same way you would in a lecture class.
<b>**NOTE (1):</b>	Step-by-step solutions to <b>all</b> required <b>highlighted</b> Chapter Tests, as indicated below, <b>must</b> be maintained in a notebook. YOUR NOTEBOOK SHALL BE AVAILABLE FOR REVIEW BY YOUR INSTRUCTOR BEFORE AND AFTER EACH TEST. <b>You must bring this with you when you take a test.</b> Do <b>not</b> take a test until you <b>are</b> able to at least do the Chapter-Review and Chapter-Test Exercises (as indicated below) without relying on sample problems.
<b>NOTE (2):</b>	<b>EACH TEST WILL INCLUDE SOME PROBLEMS BASED ON PREVIOUS CHAPTERS STUDIED.</b>
<b>NOTE (3):</b>	A non-graphing, non-programmable scientific calculator supplied by the Math Lab may be used when testing. If rounding is specified, round <b>only</b> the final calculator display.
<b>NOTE (4):</b>	Answers to all exercises specified below are found in the back of the book.
<b>NOTE (5):</b>	All exercises at the end of each section that are listed below <b>should</b> be done. Answers are available in back of the text.
<b>NOTE (6):</b>	TO BE ABLE TO FINISH YOUR COURSE ON TIME, YOU SHOULD COMPLETE THE REQUIRED MATERIAL FOR A TEST AND PASS EACH TEST BEFORE EACH GUIDELINE (NOT DEADLINE) DATE INDICATED.
<b>NOTE (7):</b>	It is your responsibility to check the Math Lab bulletin board and hand in an attendance slip each time you attend the Lab (including testing).

2010	TITLE	WATCH	READ	DO
		SECTION VIDEOS	PAGES	HOMEWORK EXERCISES AT THE END OF EACH SECTION/ CHAPTER
<b>TEST 1</b> Should be taken during the week of <b>Sep. 20</b>	<b>The Six Trigonometric Functions</b> Angles, Degrees, and Special Triangles	1.1	1-13	1,7,9,13,17,19,21,23,24(ans. 70°), 29,35,37,39,41,47,49,55,59,61,65
	The Rectangular Coordinate System	1.2	14-26	13,19,25,35,37,37,39,43,47,49,61,63, 67,81,84
	Definition I: Trigonometric Functions	1.3	26-32	5,9,11,15,21,25,27,31,33,39,47,55, 59,61,63,65,67,69,71
	Introduction to Identities [Be sure to <u>memorize</u> the Reciprocal, Ratio, and Pythagorean Identities.]	1.4	32-39	11,17,19,25,29,31,35,41,45,49, 53,55,59
	More on Identities	1.5	40-44	1,7,11,19,23,27,33,35,39,45,47,53, 59,63,71,75,81,83,87,85
	Chapter 1 Summary <b>**Chapter 1 Test</b>		45-47 <b>47,48</b>	Review all. <b>All, except 16.</b>
<b>TEST 2</b> Should be taken before or during the week of <b>Oct. 4</b>	<b>Right Triangle Trigonometry</b> Definition II: Right Triangle Trigonometry	2.1	51-60	5,9,13,15,17,21,23,29,33,35,45,47, 49,55,57,61,63,69
	Calculators and Trigonometric Functions of an Acute Angle	2.2	61- 69	5,7,9,15,29,31,39,43,57,59,63,71 75,79,81,85,87,89,89b,91,93,95,97
	Solving Right Triangles	2.3	69-78	1,3,5,13,15,27,33,35,37,41,43, 47,49,53,59,61,65
	Applications	2.4	78-91	1,3,5,7,11,13,15,24 (ans. 44 ft.), 25,29,33,35,37,39,41
	Vectors: A Geometric Approach	2.5	91-100	1,3,7,9,11,13,17,19,23,25,27,29,31, 33,35,37,41,45,47
	Chapter 2 Summary <b>**Chapter 2 Test</b>		100-102 <b>103,104</b>	Review <b>All</b>
<b>TEST 3</b> Should be taken before or during the week of <b>Oct. 18</b>	<b>Radian Measure</b> Reference Angle	3.1	106-114	3,7,11,13,21,27,29,35,41,49,53, 65,67,73,77,83,85,89
	Radians and Degrees	3.2	114-123	1,7,9,11,21,23,25,27,35,41,43 49,53,59,63,71,73,81,85,89
	<b>NOTE (8):</b> Ask your instructor for the handout: <u>Use of the Scientific Calculator for Radian Problems.</u> (1210 - Test 3).		"Handout"	1-8
	Definition III: Circular Functions	3.3	124-133	1,7,9,11,13,15,17,19,21,39,41, 43,49,51,55,57,59,67
	Arc Length and Area of a Sector	3.4	133-144	1,5,9,11,13,19,21,23,25,27b,37,39, 45,47,59,63
	Velocities Chapter 3 Summary <b>**Chapter 3 Test</b>	3.5	144-154 155,156 <b>157-159</b>	1,7,13,21,25,31,37,41,43,51,53,61,63 Review all. <b>1-48,52,53</b>
			<b>See NOTE (2).</b>	

2010	TITLE	SECTION VIDEOS	PAGES	HOMEWORK EXERCISES AT THE END OF EACH SECTION / CHAPTER	
<b>TEST 4</b> Should be taken before or during the week of <b>Nov. 1</b>	<b>Graphing and Inverse Functions</b>				
	Basic Graphs	4.1	162-177	1,3,5,7,9,13,15,17,21,27,29,31,33,51,53,55,61,71,73,79	
	Period, Reflection, and Vertical Translation	4.2	177-189	1,3,5,7,9,17,21,33,35,41,45,47,51,59,69,73,77,81	
	Phase Shift	4.3	189-200	1,7,15,21,23,27,33,39,41,47,49,53,55	
	Finding an Equation From its Graph	4.4	200-210 [Skip pgs. 211-217.]	1,5,9,13,17,21,23,33,37,39,43	
	The Inverse of a Function (Appendix A)	A.2	435-444	9,13,39	
	Inverse Trigonometric Functions	4.6	217-229	1,3,5,13,19,21,25,33,35,63,65,69,71,79,81,85,90,95	
Chapter 4 Summary		229-231	Review (except for skipped material).		
<b>**Chapter 4 Test</b>		<b>232-233</b>	<b>1-10, 12-22,25-38 ,40</b> Give the exact value for $\sin[\cos^{-1}(-5/13)]$ (answer 12/13).		
			<b>See NOTE (2).</b>		
<b>TEST 5</b> Should be taken before or during the week of <b>Nov. 15</b>	<b>Identities and Formulas</b>				
	<b>NOTE (9):</b> The identities listed on page 238 <u>must</u> be memorized. The identities introduced in the remainder of this chapter will be listed on tests 5 and 6. Although you are encouraged to follow through with their derivations, you will <u>NOT</u> be responsible for deriving them on the test.				
	Proving Identities	5.1	236-245	7,11,15,19,23,27,31,35,39,43,47,59,61,75,81,85,89	
	Sums and Difference Formulas	5.2	245-254	5,7,19,21,25,29,31,35,37,39,41,45,49,51,53,55,73	
	Double-Angle Formulas	5.3	255-261	3,11,19,21,27,29,35,37,41,45,49,53,59,61,63	
	Half-Angle Formulas	5.4	262-267	1,5,13,19,25,27,31,33,37,41,45,49,51,53	
	Additional Identities	5.5	267-273 [Skip pg. 269, (bottom) through 272.]	1,5,9,11,41,45	
Chapter 5 Summary		272,273 274,275	Review (except for skipped material).		
<b>**Chapter 5 Test</b>		<b>276,277</b>	<b>1-11, 19-34, 37</b>		
			<b>See NOTE (2).</b>		
<b>TEST 6</b> Should be taken before or during the week of <b>Nov.29</b>	<b>Equations</b>				
	Solving Trigonometric Equations	6.1	279-288	5,7,11,15,21,27,31,37,41,43,47,53,75,77,79,83,85,89	
	More on Trigonometric Equations	6.2	289-294	3,5,11,13,17,23,25,29,39,41,47,51,59,67	
	Trigonometric Equations Involving Multiple Angles [Omit examples 4,5, and 6 on pages 297 and 298.]	6.3	294-302	1,3,7,9,13,25,29,59,67,69	
	Chapter 6 Summary		[Skip pgs. 302 (middle) – 311 (middle.) 311-312	Review (except for skipped material).	
	<b>**Chapter 6 Test</b>		<b>312,313</b>	<b>1-16</b>	
	<b>Triangles</b>				
	<b>NOTE (10):</b> Although you are encouraged to follow through with the derivations of the Law of Sines and the Law of Cosines, you will <u>NOT</u> be responsible for deriving them on the test. However, you must memorize and know how to use them.				
	The Law of Sines [Omit Example 5 on page 322.]	7.1	316-327	1,5,9,13,17,19,21,25,29,35,37,39,43,47,51	
	The Ambiguous Case	7.2	328-335	7,9,11,13,15,17,19,21,25,29	
The Law of Cosines	7.3	336-342 [Skip pgs. 343-361.]	1,5,9,13,17,19,21,23,25,33		
<b>NOTE (11):</b> Ask your instructor for the handout: <u>More on Vectors</u> (1210-Test 6.)		"Handout"	1 - 6		
Chapter 7 Summary		362 [Skip pgs. 372,373.]	Review all.		
<b>**Chapter 7 Test</b>		<b>364-366</b>	<b>9-14, 21-28 only.</b>		
			<b>See NOTE (2).</b>		