

MATHEMATICS ASSIGNMENTS
 PRECALCULUS WITH ANALYSIS
 MS. WILDSTROM
 OCTOBER 24-NOVEMBER 18, 2009

DATE	READING LECTURE	PROBLEMS DUE	WORKSHEET QUIZ/TEST
Thurs., 10-22	7.2		MORE TEST 6
Fri., 10-23		Group Work on Triangles and SHM	Group Work
Mon., 10-26	7.2		
Tues., 10-27	7-2	p. 161-162 #Proofs for 21,22,24,26-28,31-33. Domains for all except #28	
Wed., 10-28	7-2	p. 161-162 Proofs and domains for all #35,37,38,55-57,59,60, 64,66,67.	
Thurs., 10-29	7-3	p. 161-162 #35,37,38,55-57,59,60, 64,66,67.	
Fri., 10-30	7-3,4,5		(Journal 11-1)
Mon., 11-2		NO SCHOOL!	
Tues., 11-3		p. 166-167 #1,3,5-12,14,18,19,24,27-29	
Wed., 11-4			7-2
Thurs., 11-5	7-3,4	p. 170 #7-13,24-26,31-37.	
Fri., 11-6	7-4,5	p. 170-171 #39-43. p. 173 #1-11 odd.	(Journal 11-8)
Mon., 11-9	7-5, Review	p. 174 #17-20,24,26,28,30-33.	
Tues., 11-10	7-6		Worksheet (7-3,4)
Wed., 11-11	7-6	p. 179-180 #1-6,7,9,11,13,14,15,17,19,20	
Thurs., 11-12	7-6	p. 180 #21-29, 33-35.	
Fri., 11-13	Review	Review for test on 7-2,3,4,5	
Mon., 11-16		NOTEBOOKS DUE!	TEST 7-2,3,4,5
Tues., 11-17	7-6	(Loose Ends)	
Wed., 11-18		NOTEBOOKS DUE! (10 points)	7-6

OBJECTIVES: Students should be able to:

1. use the fundamental trigonometric identities to construct algebraic proofs for identities containing trig functions, and state valid domains for identities containing only one argument. (7-2)
2. derive and prove the sum and difference formulas for the sine, cosine and tangent functions and use them to determine the values of trig functions for angles that are the sum or difference of known angles; construct proofs for identities that involve sum and difference formulas. (7-3)
3. use the sum and difference formulas to derive reduction formulas, double-angle formulas and to solve specific problems involving such arguments. (7-4)
4. derive half-angle formulas from double-angle formulas, and construct proofs of identities involving half- or double-angle arguments. (7-5)
5. interpret the product of two complex numbers graphically using polar form and use deMoivre's theorem to find the nth power of a complex number and the n complex nth roots of complex numbers. (7-6)