

MATHEMATICS ASSIGNMENTS
 CALCULUS– MS. WILDSTROM
 APRIL 23-MAY 28,2008

DATE	READING LECTURE	PROBLEMS DUE	WORKSHEET QUIZ/TEST
Wed.,	4-23	9.1	
Thurs.,	4-24	9.1	
Fri.,	4-25	9.1	
Mon.,	4-28	9.2	
Tues.,	4-29	9.3	
Wed.,	4-30		
		Review for AP Exam L'Hopital's Rule and slopefields	
Thurs.,	5-1	Review for AP Exam	
Fri.,	5-2	Review for AP Exam	
Mon.,	5-5	Review for AP Exam	
Tues.,	5-6	Review for AP Exam	
Wed.,	5-7	AP EXAM	
Thurs.,	5-8	9.2	
		p.467 #1,2,5,6,9,11,14,15,17,21,22, 23,27,28,29.	
Fri.,	5-9	9.3	
Mon.,	5-12	9.4	
Tues.,	5-13	9.4	
Wed.,	5-14	9.5,6	
Thurs.,	5-15	9.5,6	
Fri.,	5-16	9.6	
Mon.,	5-19		
Tues.,	5-20		
Wed.,	5-21	Review	
Thurs.,	5-22	Review	
Fri.,	5-23	Review	
Mon.,	5-26		
Tues.,	5-27		
Wed.,	5-28		
		Review for final	
		Review for final	
		Review for final	
		NO SCHOOL!	
		Period 6	
		Period 4	
			Journal 4-27
			Journal 5-11
			Wksht 9.1,2,3
			TEST 9
			TEST 9
			Journal 5-25
			Senior Final
			Senior Final
Mon.,	6-2		
Sun.,	6-8		
			Reading/Internet Journal (6-8)

I am projecting certain “events” (tests, in particular) predicated on what I presume will be the way the schedule will be during HSA’s and the seniors’ last week of classes. If I were permitted and students preferred, I could schedule the chapter 9 test during the morning (delayed opening) time and allow students to take the entire test in one sitting. If we have severely shortened classes then I will schedule the test over two days (it will be choose your own adventure) and provide some reasonable number of problems each day so students can accumulate the necessary total (probably 10) problems over the course of the two days.

OBJECTIVES: Students should be able to:

1. integrate by parts. (9.1)
2. solve integrals involving trigonometric functions (9.2)
3. use trig substitutions to integrate. (9.3)
4. solve integrals by partial fractions (9.4)
5. use completing the square to make quadratic expressions more workable. (9.5)
6. solve integrals by making clever substitutions that will allow expressions to simplify. (9.6)
7. use a table of integrals as appropriate to integrate cumbersome and unusual expressions that fit "pattern" forms. (9.7)

p. 462 #6 $- \frac{1}{4}e^{-2x}(2x + 1) + C$ #26 $(x \tan x)/5 + \ln|\cos 5x|/25 + C$
#32 $2^x(x - 1/\ln 2)/\ln 2 + C$ #38 $(x+1)^{11}(11x+23)/132 + C$

p. 467 #2 $x/2 - (\sin 4x)/8 + C$ #6 $(\sin^6 x/6 - \sin^8 x/8) + C$
#14 $-\cot^3 x/3 + \cot x + x + C$ #20 $4/\pi - 1 = 0.27$
#22 $-1/12$ #26 $-\cos x - 4(\cos x)^{3/2}/3 - \frac{1}{2}\cos^2 x + C$
#28 $-\frac{1}{2} \sin 2x + C$ #30 $(\sec^5 x)/5 - 2 \sec^3 x/3 + \sec x + C$

p. 472 #2 $-(4-x^2)/x - \sin^{-1}(x/2) + C$ #8 $\frac{1}{2}\ln(x^2+9) + C$
#14 $(\tan^{-1}(x/7))/7 + C$ #16 $(x^2 - 9)^{3/2}/3 + C$
#24 $20\sqrt{10}/3 - 21 = (0.08)$

p. 478 #14 $5 \ln |x+3| + (x+3)^{-2} + C$ #16 $2x - 5 \ln|x+3| + 3/(x+3) + C$
#20 $-(x^2 + 1)^{-2} + C$ #30 $\ln|x| + 2 \ln|x+1| + 2 \ln|2x+1| + C$

p. 481 #2 $\sin^{-1}((x-3)/4) + C$

p. 485 #8 $3x^{2/3}/2 - 12x^{7/12}/7 + 2x^{1/2} - 12x^{5/12}/5 + 3x^{1/3} - 4x^{1/4} + 6x^{1/6} - 12x^{1/12} + 12 \ln(1 + x^{1/12}) + C$
#12 $x + 3x^{2/3} + 6x^{1/3} + 6 \ln|x^{1/3} - 1| + C$