

MATHEMATICS ASSIGNMENTS
 CALCULUS– MS. WILDSTROM
 NOVEMBER 29, 2007-JANUARY 22, 2008

DATE	READING LECTURE	PROBLEMS DUE	WORKSHEET QUIZ/TEST
Thurs., 11-29	4.1,3,4		
Fri., 11-30	4.3,4	p.175-176 #1,3,5,7,12,15,19,27,29,31,50.	Journal (12-2)
Mon., 12-3	4.3,4	p.190 #5,8,13,21,25,28,35,37,39.	
Tues., 12-4	4.3,4	p. 198-199 #1,5,7,15,17,31,33,35.	
Wed., 12-5	4.5	p. 198-199 #19-29 odd. (use instructions from 3.3 and 3.4 using 1st and 2nd derivative tests.	
Thurs., 12-6	4.5,2	p. 206 #1,9,11,15,21,25,27.	
Fri., 12-7	4.2		
Mon., 12-10	Review	p. 181-182 #3,6,8,11,13,15,19,23.	
Tues., 12-11	4.6		Wksht 4.1-5
Wed., 12-12	4.6	p.215-218 #(1,2,5,9-11,), (13,33). Parentheses groupings indicate problems with similar ideas	
Thurs., 12-13	Review for test	p. 236 #3,5,7,10,13,15,16,20,23.	Journal (12-16)
Fri., 12-14		NOTEBOOKS DUE!	TEST 4.1-4.5
Mon., 12-17	4.6	p. 215-218 #(15,27,35,40), (19,20,22), (23,24)	
Tues., 12-18	4.7,8		
Wed., 12-19	4.7,8	p. 229-230 #3,7,9,11,31,33,38,39.	
Thurs., 12-20	4.7,8	p. 234 #1,3,8,11,15.	
Fri., 12-21	Review	p. 236 #26,27,30,31,37,39.	
		ENJOY YOUR HOLIDAY!	Journal (12-30)
Wed., 1-2	Review	p. 236 #26,27,30,31,37,39.	Reading/Internet
Thurs., 1-3		NOTEBOOKS DUE!	QUIZ 4.6,7,8
Fri., 1-4		Review for Final Exam	Journal (1-6)
Mon., 1-7		Group Work Review Project	
Tues., 1-8		Group Work Review Project	
Wed., 1-9		Group Work Review Project	
Thurs., 1-10		Review for Final Exam	Group Work Due
Fri., 1-11		Review for Final Exam	
Mon., 1-14		EXAMS – PERIODS 1 AND 2	
Tues., 1-15		EXAMS – PERIODS 3 AND 4	
Wed., 1-16		EXAMS – PERIODS 5 AND 6	
Thurs., 1-17		EXAMS – PERIODS 7 AND 8	
Fri., 1-18		MAKE-UP EXAMS	Journal (1-20)
Mon., 1-21		NO SCHOOL!!!	
Tues., 1-22		NO SCHOOL!!!	

OBJECTIVES: Students should be able to:

1. determine critical values for a function on a selected interval or over the entire domain. (4.1)
2. use the first and second derivative tests to determine relative maximum and minimum points, increasing or decreasing behavior of the function on intervals, points of inflection, and concavity of graphs; then use this information to sketch a reasonably accurate graph. (4.3,4,5)
3. use the Mean Value Theorem to show that there is always at least one value in an interval where the tangent line is parallel to the line through the end points of the graph on that interval. (4.2)
4. use derivatives to solve optimization (max-min) problems. (4.6)
5. use derivatives to describe and solve position-velocity-acceleration problems and certain economic (industrial) problems. (4.7)
6. use Newton's method to determine roots of functions to a desired degree of accuracy. Use a Newton's method program on the calculator to mechanize the process. (4.8)