

MATHEMATICS ASSIGNMENTS
 CALCULUS– MS. WILDSTROM
 SEPTEMBER 15-OCTOBER 9, 2008

| DATE | READING LECTURE | PROBLEMS DUE | WORKSHEET QUIZ/TEST |
|--------------|-----------------|--|--------------------------------|
| Mon., 9-15 | 2.1 | --- | |
| Tues., 9-16 | 2.1 | p. 48-49 #5,9,13,15,17,19,20, 23,26,27 | |
| Wed., 9-17 | | NOTEBOOKS DUE | TEST (1.1,2,3, 8.1, logs/exps) |
| Thurs., 9-18 | 2.2, EDGAME | p. 49-51, #31,33,37,39,41, 45,47 | |
| Fri., 9-19 | 2.2,2.3 | p. 58 #7-12. (Instructions - $\varepsilon=.001$; find a suitable δ . | |
| Mon., 9-22 | 2.3, Sandwich | --- | |
| Tues., 9-23 | 2.3 | p. 66-67 #1,5,17-31 odd,37,39,43,45,47. | |
| Wed., 9-24 | 2.4 | p. 67 #49-52 all,69,71. | |
| Thurs., 9-25 | 2.4 | p. 76-77 #1-15 odd, 19,22,23 | |
| Fri., 9-26 | 2.5 | p. 77 #27-39 odd | Journal (9-28) |
| Mon., 9-29 | 2.5 | p. 85-87 #1-15 odd, 19-27 odd,28-30. | |
| Tues., 9-30 | | NO SCHOOL! | |
| Wed., 10-1 | Review | p. 87 #31,33,42-46,48,49,51,59,60. | |
| Thurs., 10-2 | Review | p. 88 #1,3,5,7,8,10,13,15,16,17,19,20,21,26 | WORKSHEET |
| Fri., 10-3 | Review | p. 88 #27,31,35-43 odd | |
| Mon., 10-6 | 3.1 | | |
| Tues., 10-7 | | NOTEBOOKS DUE! | CHAPTER 2 TEST |
| Wed., 10-8 | 3.1 | p. 97-98 #1-9 odd, 13, 15-17, 19, 21, 22. | |
| Thurs., 10-9 | | NO SCHOOL | Journal (10-12) |

OBJECTIVES: Students should be able to:

1. find left-hand and right-hand limits and limits if they exist.
2. use algebraic simplification to find limits.
3. use graphs to find limits.
4. use the definition of a limit to find δ given ε .
5. use the rules in Theorem 2.8 and the Sandwich Theorem to find limits.
6. find limits involving infinity.
7. discuss and verify continuity for functions, determine values for which a function is continuous.
8. use the intermediate value theorem with continuous functions to prove certain values exist.

Even answers

- p. 48 #16. -4 18. $1/10$ 20. $3x^2$ 26. a)-1 b)1 c)dne 28. a)-25/4 b)dne c)dne 32. 4,4,4,1,1,1
 36. -1,-2,dne,1,0,dne 40. 0,dne,dne,1,1,1
- p. 66 #58. a)1 b)0 60. a) $n-1-n^2$ b) $n-n^2$
- p. 76 #22. -4
- p. 85 #18. infinite disc 28. 2.20(ii) not satisfied lim dne 30. 2.20(iii) not satisfied 42. $x \neq 4$
 44. (-1,1) 46. Reals 48. $x \neq -3,-4,2$ 50. (6,9]
- p. 88 #8 dne 10 $-1/25$ 16 $-3/16$ 20 ∞ 26 dne