

Differential Equations

Math 5410 Fall Semester 2004

Name: _____

email: _____

Telephone: _____

Midterm 1 [week 5]

Av= , Scores _____

Midterm 2 [week 10]

Av= , Scores _____

Term Paper [week 12]

Av= , Scores _____

Midterm 3 [week 14]

Av= , Scores _____

Average of Midterms and Term Paper: $AV_1 =$

Average of daily work and maple labs: $AV_2 =$

Final Grade: $\frac{70}{100}AV_1 + \frac{30}{100}AV_2 =$

Questions: 581-6879, Email: gustafson@math.utah.edu, Office: 113 JWB.

Maple Labs (12 boxes)

Lab sources on the web site. Use a cover sheet on each package. Save paper with a small figure size. Edit the output. Notes in pencil.

Lab 1a [week 2] 1a ,

Lab 1b [week 4] 1b ,

Lab 2a [week 6] 2a ,

Lab 2b [week 8] 2b ,

Lab 3a [week 10] 3a ,

Lab 3b [week 13] 3b ,

Text: J.M. Cushing, *Differential*

Equations: An applied Approach.

Prentice-Hall, New Jersey (2004)

Intro Chapter 0: week 1

Exposition tuneup problems.

Graded, but no credit. 100% expected.

Page 7: 6 , 27 ,

81 , 100

Page 16: 2a , 4a , 9

Chapter 1: weeks 2-3 (9 boxes)

Page 25, 1.1: 4 , 6 ,

16 , 27

Page 30, 1.2: 11 , 15 ,

Page 39, 1.3: 6 , 7 , 8

Chapter 2: weeks 4 (11 boxes)

Page 53, 2.1: 32 , 40

58 , 74c

Page 60, 2.2: 2 , 6

Page 64, 2.3: 12 , 22 , 28

Page 69, 2.4: 4 , 10

Chapter 3: weeks 5-6 (14 boxes)

Page 81, 3.1.1: 4 , 16

Page 89, 3.1.2: 7 , 20

Page 91, 3.1.3: 10

Page 91, 3.1.4: 11 , 24 , 38

Page 111, 3.2: 10 , 31

Page 115, 3.3: 2 , 14

Page 130, 3.4: 8 , 30

Chapter 4: week 7 (10 boxes)

Page 141, 4.1: 13 , 18

Page 147, 4.2.1: 3 , 4

Page 151, 4.2.2: 5 , 14

Page 164, 4.3: 10 , 26

Page 172, 4.4: 2 , 10

Chapter 5: weeks 8-9 (14 boxes)

Page 180, 5.1: 2 , 4
 Page 191, 5.2: 14 , 19 ,
 20d
 Page 195, 5.3: 13 , 16
 Page 212, 5.4: 14 , 22
 Page 218, 5.5: 8 , 21
 Page 223, 5.6: 6 , 11 , 16

Chapter 6: week 10 (8 boxes)

Page 233, 6.1: 10 , 23 , 30
 Page 244, 6.2: 4 , 8 , 17
 Page 253, 6.3: 2 , 6

Chapter 7: week 11 (10 boxes)

Page 267, 7.1: 8 , 12 , 21
 Page 275, 7.2: 4 , 10
 Page 283, 7.3: 8 , 10 , 16
 Page G-6, 7.5: 7 , 9

Chapter 8: weeks 12-13 (16 boxes)

Page 291, 8.2: 2 , 10 , 25
 Page 298, 8.3: 9 , 10 , 11
 Page 303, 8.4: 8 , 14
 Page 309, 8.5: 9 , 18 , 26
 Page 319, 8.6: 2 , 6 , 18
 Page 328, 8.7: 9 , 11

Chapter 9: week 14 (20 boxes)

Page 338, 9.1: 10 , 16 ,
 22 , 27
 Page 345, 9.2: 3 , 12
 Page 348, 9.3: 2 , 8
 Page 358, 9.4: 4 , 52 ,
 60 , 64 ,
 76 , 84 ,
 98 , 102
 Page 368, 9.5: 16 , 18 ,
 30 , 32

Policy on Dailies: The highest 116 boxes will be counted. The lowest 8 of the 124 boxes will be counted as extra credit. Any record with less than 75 daily and lab scores earns a grade of **E**, regardless of midterm and term paper scores. Deadlines set at web site www.math.utah.edu/~gustafso/. **Grading Scale:** A = 95-100, A- = 92-94, B+ = 88-91, B = 84-87, B- = 80-83, C+ = 75-79, C = 65-74, C- = 60-64.