

Differential Equations 5410

Fall Semester 2008

Name: _____

phone: _____

email _____

Grade by email (Y/N)? ____

Midterm 1 [Sept 16] $Av = \square$, Scores _____

Midterm 2 [Oct 21] $Av = \square$, Scores _____

Midterm 3 [Nov 18] $Av = \square$, Scores _____

Midterm 4 [Dec 5] $Av = \square$, Scores _____

Average of midterms: $AV_1 = \square$

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

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

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

Chapter 1

1.1: 2
1.2: 2 , 3a , 4a , 4d
1.3: 1 , 5d , 6 , 11
1.4: 3 , 4 , 9 , 14
1.5: 3 , 10 , 12
1.6: 2 , 3 , 5 , 7
1.7: 1 , 5
1.8: 1 , 3 , 5
1.9: 1c , 2c , 3a , 5
9

Chapter 2

2.1: 1 , 2 , 4
2.2: 1a , 4 , 5
2.3: 1 , 5
2.4: 1a , 2a , 3a , 4a
7
2.5: 1 , 2b
2.6: 2b , 3d , 3e , 4b

2.7: 2 , 3

Chapter 3

3.1: 1 , 2 , 6
3.2: 1b , 1e , 2b , 4
10b , 11a
3.3: 1 , 2 , 4
3.4: 1 , 2a , 2b , 2c
3b , 4b
3.5: 1 , 3 , 4
3.6: 1 , 3 , 4 , 5
6 , 10
3.7: 3 , 4 , 7

Chapter 4

4.1: 1 , 4 , 5
4.2: 1b , 2a
4.3: 1 , 2
4.4: 2 , 7 , 8

Chapter 5

5.1: 1 , 2d , 3 , 4b ,
5.2: 1 , 2a , 2b , 3d ,
5.3: 1c , 2a , 3a , 4 ,
5.4: 1c , 2c , 3c , 4 .

Chapter 6

6.1: 1a , 1b , 1c , 2a ,
2c , 3a ,
6.2: 1d , 1g , 1i , 3e ,
6.3: 1a , 1c , 1g , 1h ,
2d , 2f , 3b , 3e ,
4a , 4c , 5b , 5c ,
6.4: 1a , 2a , 3a ,
6.5: 1b , 2 .

Chapter 7

7.1: 1 , 3 ,
7.2: 1 , 7 ,
7.3: 1b , 2a , 2b , 2c ,
3 , 8a ,
7.4: 1a , 1b , 1e , 1g ,
2 , 5 , 7 , 7.5: 1a ,
2b , 3a , 3c , 4a ,
7.6: 1 , 2 , 3a , 4a ,
7.7: 2a , 2c , 3a , 3c ,
4 , 6 ,
7.8: 1a , 1b , 2a , 2b ,
4c , 6a ,
7.9: 1a , 2a , 4 , 7a ,
9a , 10c , 12a ,
7.10: Skip,
7.11: 2 , 3 , 4a .

Lab 1 [Setup and direction fields]

Lab 2 [DE plots and Teddy Bear]

Lab 3 [Picard Iteration and Implicit plot]

Lab 4 [Euler, Heun, RK4]

Lab 5 [Chaos]

Lab 6 [Antihistamine and escape times]

Lab 7 [Phase diagrams]