

MATH 2552 Differential Equations, Suggested Homework List, Fall 2019

Week 1: Aug 21 – 23

- Sec 1.1: 1, 2, 4, 5, 15, (17)
- Sec 1.2: 1-13,
- Sec 1.3: 1-6, 13-17, 23-24, 25-26, 27-28, 33

Week 2: Aug 26 – 30

- Sec 2.1: 1-8, 13-20, 30-34
- Sec 2.2: 1-6, 17-20, 22, 31
- Sec 2.3: 1-5, 10-13, 16, 19
- Sec 2.4: 1-6, 7-11, (13), 15-16, 25
- Sec 2.5: 1, 2, (6,7,9),10, 11, 12

Week 3: Sep 2 – 6

- Sec 2.6: 1-12 (a) and (b) only, 15, 16, (19-21 (a) and (b))
- Sec 2.7: (1-6), 13-17, 24-36
- Sec 3.1: 1-5, 13-18, 27-30, 33-36
- Sec 3.2: 1-8, 9(a)-10(a), 15-17 (a) only, 21-26, 30(a)-(c), 31
- Sec 6.1: 1-3, 4-9

Week 4: Sep 9 – 13

- Sec 3.3: 1-3, 13-20, 33-36
- Sec 6.2: 1-6, 8-9, 11-14
- Sec 6.3: 1-8

Week 5: Sep 16 – 20

- Sec 3.4: 1-10, 13-18
- Sec 6.4: 1-8
- Sec 3.5: 1-12, (15)

Week 6: Sep 23 – 27

- Sec 3.6: 7-12 (a) and (b) only
- Sec 4.1: 1-7, 8-16
- Sec 4.2: 1-7, 15, 18, 21, 22-25, 26, 28-33
- Sec 4.3: 1-10, 27-37, 44,45, 47, 48, 51

Week 7: Sep 30 – Oct 4

- Sec 4.3: 52, 54-58, 62-65
- Sec 4.5: 1-10, 17-20, 23a-30a, 31, 32-34
- Sec 4.7: 2-5

Week 8: Oct 7 – 11

- Sec 4.7: 2-5, 10-12, 14-16, 22-24, (39, 40)
- Sec 4.4: 1-4

Week 9: Oct 14 – 18

- Sec 4.3 (Cauchy-Euler), 4.5, 4.7
- Sec 4.4: 1-4, 5a, 6a, 7, 10, 15-17, 24, 25, 29, 30, 5: 1-10, 17-20, 23a-30a, 31, 32-34
- Sec 4.6: 1-4, 5, 6, 9, 10, 11, 16-18, 20-22
- Sec 5.1: 1-4, 5-12, 14-17, 22-26, 28, 31-34
- Sec 5.2: 1-10, 11, 12-18

Week 10: Oct 21 – 25

- Sec 5.3: 9-20
- Sec 5.4: 4-8, 11-13, 16-19, 20-21

Week 11: Oct 28 – Nov 1

- **Fall Break**

Week 12: Nov 4 – 8

- Sec 5.5: 1-4, 8-11, 13-15, 22-24
- Sec 5.6: 1-7, (19, 20)

Week 13: Nov 11 – 15

- Sec 5.7: 1-8 (finding solution only), 15
- Sec 5.8: 3-6, 7-12
- Sec 7.1: 1-12 (a and c only)

Week 14: Nov 18 – 22

- Sec 7.2: 1-12 (a,b,c only), 21, 22, 25
- Sec 7.3: 1-6
- Sec 7.4: 1-5

Week 15: Nov 25 – 29

- Sec 8.1: (just need to know how to get y_1 , y_2 ...) 1-4, 11-14
- Sec 8.2: 17, 18
- Sec 8.3: 1-2 (just need to know how to get y_1 , y_2 ...)

Week 16: Dec 2 – 3

- **Review for final exam**