

MA214–003 Fall 2009
Suggested Homework Problems
November 9, 2009

WEEKLY PROBLEM SESSION: We meet each **CB 313, W 4-5** to discuss the latest problems. You should be reading sections 6.1–6.3 on the Laplace transform method.

Quiz #5 on Friday, 13 November, on second-order nonhomogeneous linear ODEs.

Section 1.1. page 7. # 1, 3, 6.

Section 1.2. pages 15–16. # 2, 4, 5, 8, 9, 10, 13.

Section 1.3. pages 24–25. # 1–5, 9–11, 15, 16.

Section 2.1. pages 39–40. # 1–6, 13–16 (you can use a calculator or IODE for the direction fields).

Section 2.2. pages 47–48. # 1–6, 9–15, 21, 23, 24, 30.

Section 2.3. pages 59–60. # 1, 2, 4, 9, 12.

Section 2.4. page 75. # 1–10, 14, 16.

Section 2.5. page 88. # 2, 3, 15, 16.

Section 2.7. page 108. #1, 3, 5, 6, 11, 13. (You may use a calculator and or IODE.)

Section 3.1. page 142. # 1–8, 9–11.

Section 3.2. pages 151. # 1–4, 7, 8, 13, 21, 22.

Section 3.3. page 158. # 1–9, 10, 15–17.

Section 3.4. page 164. # 1–6, 7–10, 17–20.

Section 3.5. page 172. # 1–14.

Section 3.6. page 184. # 1–6, 13–16.

Section 3.7. page 190. # 1–4, 13–17.

Section 3.8. page 203. # 1–4, 6–8, 12.

Section 3.9. page 214. # 1, 2, 6.

Section 6.1. page 312. # 1–6, 7, 8, 11, 12, 15, 16, 21, 22.

Section 6.2. page 322. # 1–10, 11–16, 24, 25.

Section 6.3. page 329. # 1–6, 7, 9, 13–16,

Section 6.4. page 337. # 1–6.

Section 6.5. page 344. # 1–6.