**MATH 219 Suggested Problems, Fall 2020**

Based on the textbook, *Elementary Differential Equations and Boundary Value Problems*, Boyce and DiPrima, 9th ed., 2010. List will be updated as time progresses.

|  |  |  |
| --- | --- | --- |
| **Week 1:**  Oct.12-16 | 1 | **§1.1:** 4, 10, 15-20  **§1.3:** 3, 4, 11, 18, 26  **§2.2:** 4, 6, 17, 23, 32, 36 |
| 2 | **§2.1:** 2, 5, 10, 14, 21, 28, 30, 32, 33, 36 |
| **Week 2:**  Oct.19-23 | 3 | **§2.3:** 4, 5, 6, 8, 12, 14, 18, 21, 23, 26, 29 |
| 4 | **§2.4:** 1, 3, 5, 6, 8, 10, 12, 14, 16, 23, 27, 30 |
| **Week 3:**  Oct.26-30 | 5 | **§2.6:** 3, 5, 9, 10, 13, 18, 21, 24, 30, 32 |
| 6 | **§7.1:** 19, 23  **§7.2:** 1, 2, 9, 11, 16, 21, 24, 25 |
| **Week 4:**  Nov.2-6 | 7,8 | **§7.3:** 3, 4, 8, 14,15, 18, 22, 25, 26 ,32 |
| **Week 5:**  Nov.9-13 | 9 | **§7.4:** 3, 7  **§7.5:** 9, 10, 14, 17, 31 |
| 10 | **§7.6:** 2a, 6a, 9, 14, 26 |
| **Week 6:**  Nov.16-20 | 11 | **§7.7:** 3, 8, 10, 11  **§7.8:** 2c, 3c, 6, 9a, 17, 18, 19 |
| 12 | **§7.9:** 2, 5, 7, 10, 11, 13 |
| **Week 7:**  Nov.23-27 | 13 | **§4.1:** 2, 4, 6, 9, 10, 13, 15 |
| 14 | **§4.2:** 14, 16, 17, 20, 22, 31, 32, 36, 37 |
| **Week 8:**  Nov.30-Dec.4 | 15 | **§4.3:** 2, 7, 8, 11, 12, 14, 17, 18, 21 |
| 16 | **§4.4:**3, 4, 5, 8, 11, 16 |
| **Week 9:**  Dec.7-11 | 17 | **§3.7:** 3, 7, 12, 18, 26, 27  **§3.8:** 4, 6, 10, 11, 15, 17 |
| 18 | **§5.1:** 4, 7, 13, 16, 21, 26  **§5.2:** 1, 4, 8, 12, 20, 21  **§5.3:** 2, 7, 10, 12, 22, 23 |
| **Week 10:**  Dec.14-18 | 19 | **§5.4:** 7, 10, 16, 20, 26, 37 |
| 20 | **§5.5:** 4, 10, 11, 12, 13 |
| **Week 11:**  Dec.21-25 | 21 | **§6.1:** 1, 2, 10, 17, 23, 26, 27 |
| 22 | **§6.2:** 1, 4, 7, 9, 12, 16, 17  **§6.3:** 1, 3, 8, 10, 14, 20, 23, 38 |
| **Week 12:**  Dec.28-Jan.1 | 23 | **§6.4:** 1, 3, 5, 10, 13, 16 |
| 24 | **§6.5:** 3, 7, 10, 15, 19  **§6.6:** 2, 4, 10, 11, 17, 20, 21, 22 |
| **Week 13:**  Jan.4-8 | 25 | **§10.1:** 1, 2, 5, 6, 11, 13, 14, 15, 16, 20 |
| **Week 14:**  Jan.11-15 | 26 | **§10.2:** 1, 2, 4, 8, 9, 10, 17, 18, 21, 22, 27, 28  **§10.3:** 1, 3, 5, 6 |
| 27 | **§10.4:** 7, 8, 11, 12, 17, 18, 19, 24, 26  **§10.5:** 1, 3, 4, 5, 7, 8, 11, 14, 18, 21, 22 |