

# MATH-2400 Introduction to Differential Equations

## Recommended Text Problems

### Solutions Available Online - Fall 2009

Text: W.E. Boyce and R.C. DiPrima, *Elementary Differential Equations and Boundary Value Problems*, Ninth Edition. Any differences from Ninth Edition are shown in **red for Eighth Edition** and **blue for Seventh Edition**. Online solution numbers correspond to the Seventh Edition.

| Sec. (9 <sup>th</sup> , 8 <sup>th</sup> , 7 <sup>th</sup> ) | Page (9 <sup>th</sup> , 8 <sup>th</sup> , 7 <sup>th</sup> ) | Problems, 9 <sup>th</sup> Edition | 8 <sup>th</sup> Edition  | 7 <sup>th</sup> Edition         |
|---|---|-----------------------------------|--------------------------|---------------------------------|
| 1.1   | 7   | 8                                 | 4,6,9,12,22,24           | 4,6,9,12,16,17                  |
| 1.2   | 15  | 14                                | 1,3,7,10,14,19           | 1,3,6,9,12,15                   |
| 1.3   | 24  | 22                                | 1,2,6,7,11,18,20,26      |                                 |
| 2.1   | 39  | 38                                | 2,4,12,18,20,28,30,35    | 2,4,12,18,20,26,28,32           |
| 2.2   | 47  | 45                                | 2,4,11,14,15,22,27       |                                 |
| 2.3   | 59  | 57                                | 2,3,7,9,13,16,19,22      | 2,3,6,9,15,18,20,23             |
| 2.5   | 88  | 84                                | 2,3,7,8,9,10,15,22,23    |                                 |
| 3.1   | 144   | 142 136                           | 1,4,7,10,12,17,20,21     |                                 |
| 3.2   | 155   | 151 145                           | 3,8,11,18,22,25          | 3,8,11,18,21,24 3,8,11,18,21,24 |
| 3.3   | 3.4 3.4   | 163 164 158                       | 2,8,10,11,18,19,24,27    |                                 |
| 3.4   | 3.5 3.5   | 171 172 166                       | 2,4,7,11,14,16,28,38     |                                 |
| 3.5   | 3.6 3.6   | 183 184 178                       | 4,7,9,10,14,15,19,21,23  |                                 |
| 3.7   | 3.8 3.8   | 202 203 197                       | 2,6,7,9,13,17,21,24,27   |                                 |
| 3.8   | 3.9 3.9   | 215 214 205                       | 2, 5, 6, 7, 8, 11, 17    |                                 |
| 7.1   | 359   | 360 344                           | 2,3,7,14,17              |                                 |
| 7.2   | 371   | 372 355                           | 22,24                    |                                 |
| 7.3   | 383   | 366                               | 6,7,16,17,24,25          | 6,7,15,16,23,24 6,7,15,16,23,24 |
| 7.5   | 398   | 381                               | 3,5,7,12,16,24,25,30     |                                 |
| 7.6   | 409   | 410 390                           | 1,3,4,9,13,16            |                                 |
| 9.1   | 494   | 492 468                           | 1,2,4,5,6,7,17           |                                 |
| 9.2   | 506   | 501 477                           | 1,4,7,8,11,13            |                                 |
| 10.1  | 583   | 575 547                           | 2,4,7,14,16,19           | 2,4,7,11,12,16                  |
| 10.2  | 592   | 585 555                           | 10,13,14,15,18,19,22     |                                 |
| 10.3  | 600   | 592 562                           | 1,2,3,5,7,10             |                                 |
| 10.4  | 608   | 600 570                           | 7,14,15,21,23,27,38,39   |                                 |
| 10.5  | 618   | 610 579                           | 2,5,7,8,9,13,14,18,20,22 |                                 |
| 10.6  | 627   | 620 588                           | 3, 4, 7, 11, 13, 15      |                                 |
| 10.7  | 640   | 632 600                           | 1, 2, 6, 7, 10, 12, 13   |                                 |