

Written Homework Assignments

Refer to Learning Suite for the due dates. The following problems are numbered according to the 9th Edition of the textbook “Multivariable Calculus” by Stewart, Clegg, and Watson.

Each “M” problem is optional. If you do it using Mathematica (writing the Mathematica command and picture, if applicable, in your homework), you will get 2 bonus points. You won’t get the bonus point if you use a different software. See the last page of the syllabus for an example.

| HW # | Section | Problems |
|------|--------------|--|
| 1 | 12.1/12.2 | 12.1: 13a, 16, 19, 33, 44 12.2: 2, 10, 19, 20, 24 |
| 2 | 12.3/12.4 | 12.3: 4, 19, 26, 56 12.4: 4, 19, 28, 37 |
| 3 | 12.5/12.6 | 12.5: 4, 5, 9, 20, 28 12.6: 4(M), 21-30, 48 |
| 4 | 13.1/13.2 | 13.1: 4, 12(M), 21, 39 13.2: 4(M), 10, 17, 25, 43 |
| 5 | 13.3/13.4 | 13.3: 5, 9(M), 24, 35 13.4: 12, 18(M), 19, 39 |
| 6 | 14.1/14.2 | 14.1: 12, 31(M), 32, 52(M) 14.2: 6, 18, 28, 33, 45 |
| 7 | 14.3/14.4 | 14.3: 4, 9, 18, 26, 41, 54, 59 14.4: 4, 12(M), 19, 24, 32 |
| 8 | 14.5/14.6 | 14.5: 1, 14, 19, 26, 32, 51 14.6: 4, 10, 13, 23, 28, 31 |
| | MT Review | Review sheet and practice test |
| 9 | 14.7/14.8 | 14.7: 5, 15, 25(M), 34, 46 14.8: 2(M), 9, 30, 39 |
| 10 | 15.1/15.2 | 15.1: 18, 20, 32, 45, 50(M) 15.2: 12, 20, 25, 31, 56, 63 |
| 11 | 15.3/15.6 | 15.3: 1-6, 14, 25, 32, 39, 43(M) 15.6: 3, 10, 17, 20, 27(M) |
| 12 | 15.9/15.7 | 15.9: 1, 8, 14, 19, 22(M), 26 15.7: 4, 11(M), 19, 23, 26, 32 |
| 13 | 15.8/16.1 | 15.8: 17, 25, 26, 32, 42(M) 16.1: 3, 13-18, 28, 31-34, 36(M) |
| 14 | 16.2/16.3 | 16.2: 2, 7, 20, 22, 30(M) 16.3: 3, 6, 20, 21, 35 |
| 15 | 16.4/16.5 | 16.4: 2, 8, 13, 16, 20(M) 16.5: 7, 9-12 (in part (b), change the question to: <i>Is curl F zero, positive, or negative? Explain</i>), 15, 22 |
| 16 | 16.6/16.7 | 16.6: 1, 23, 24, 34, 41, 44 16.7: 14, 23, 26, 27, 34(M) |
| | Final Review | Review sheet and practice test |