

Math 273 Fall 2011

Set	§	Exercises
1		Problem Set 0: See handout, or go to UWO's d2l course web site: https://uwosh.courses.wisconsin.edu/
2	9.1	1-6, 8abc,11,16,18(hint: #17a),21-35 odds
3	9.2	1,2,7-21 odds,22-24,28,39
4	9.3	odds: 1-17,21-27,43,49;50
5	9.3	odds: 29-39; 34
6	9.4	odds: 1,3,7-15,19-23,39
7	9.4	torque: 5,25
8	9.5	lines: 1,3-5,11,14,15,17,52 planes: odds: 21-37
9	9.5	odds: 39-43, 47-57
10	9.6	4; odds: 1-25
11	9.7	1-5 odds,11,12,15,17,18,25,26,31
12	9.7	2,7-10,13,14,16,19-24,27-30,32,33
13	10.1	1-5,8,9,13-27 odds,35-45 odds;44
14	10.2	2; odds: 1-25,29,31,41-51
15	10.2	33-37,39
		Chapter 9 Review Chapter 10 Review
		concept check: 1-20 1-4
		T/F: all 1-4
		exercises: 1-22,24-44 1-3,5,6ab
16	10.3	1,3,11-19 odds,45,60:curvature only
17	10.4	3-13 odds,17,20,33,35
18	10.4	acceleration worksheet from UWO's d2l course web site
19	11.1	5-11 odds,12,15,22,25-27,29,35,37,41,43
20	11.2	5-17 odds,35,37
21	11.2	1,27-33 odds
22	11.3	11,15-27 odds,31,37,41,45,51,57,70ab,78,79,85,91
23	13.1	3,7,11,13,21,23,29,31 Some maple commands: to get started: enter <code>with(plots):</code> then, for vector fields, such as in #5: <code>fieldplot([y/sqrt(x^2+y^2),x/sqrt(x^2+y^2)],x=-2..2,y=-2..2,axes=normal);</code> for gradient fields, such as in #29: <code>gradplot(x^2+y^2,x=-2..2,y=-2..2,axes=normal);</code>
24	13.2	1,3,7,19,39-41
25	11.4	23,27-31 odds,32,37,45,47
26	11.5	1,5,7,11,13,21,23,33,35,43
		Chapter 10 Review Chapter 11 Review Chapter 13 Review
		concept check: 5,6a,8 1-6,9-12,14a 1-3abde,4
		T/F: 8-10,12 1-3,5,6,8,9
		exercises: 8-12,16-18,20 1-5,9-11a,13-24, 2-7,9,10 34,36,37,42,43,50

Set	§	Exercises (continued)									
27	11.6	1,5–13 odds,17–27 odds, 28–32 evens									
28		tangent planes and normal lines:									
	11.4	1,5									
	11.6	39–43 odds,47–53 odds,59									
29	11.7	1–19 odds, 33,38									
30	11.7	27–31 odds,39–43 odds,47									
		Chapter 11 Review concept check: 1-7b,9-18 T/F: 1-12 exercises: 25-28,31,44-48,51-56,64									
31	12.1	11–14,17,18									
32	12.2	odds: 1–9,13,17–27,31,37									
33	12.3	odds: 1–9,15–27,31,37,41–49; 62									
34	12.4	odds: 1–15,19–29,35; 36ac									
35	12.5	odds: 1–5,9–15									
36	12.7	odds: 1–21,27–35,39;40,51									
		Chapter 12 Review concept check: 1a-d,2,3,4a-c,7,8a-c T/F: 1-7 exercises: 3-7, 9-14,15-31odds,35ab,37a,41,47									
37	12.8	1–23 odds,29a,31,35,38									
38	12.9	1,3,17,21,25									
39	13.3	3,5,7,11,13,19,23,35									
40	13.4	1–13 odds,17,21,22									
41	13.5	odds: 1–7,13–17									
		<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"></td> <td style="text-align: center;">Chapter 12 Review</td> <td style="text-align: center;">Chapter 13 Review</td> </tr> <tr> <td>concept check:</td> <td style="text-align: center;">9,10</td> <td style="text-align: center;">1–8,10</td> </tr> <tr> <td>exercises:</td> <td style="text-align: center;">42,52; Jacobian: 49</td> <td style="text-align: center;">3–5,7,8,10,11,13,16,17,21</td> </tr> </table>		Chapter 12 Review	Chapter 13 Review	concept check:	9,10	1–8,10	exercises:	42,52; Jacobian: 49	3–5,7,8,10,11,13,16,17,21
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