

Homework Assignments
353 MATH 387 - 01
Real Analysis
Fall 2009
Dr. Goutziers

Text: Introduction to Real Analysis
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Office Hours: M 09:00 am W 11:00 am R 11:00 am F 12:00 pm

Assignment			Date
1)	Page 11	1; 2; 3b; 5.	Aug 26
2)	Page 11	6; 7; 8.	Aug 27
3)	Page 11	13; 14; 15.	Aug 28
4)	Page 12	21.	Aug 31
5)	Page 15	4; 9; 10; 14; 15.	Sep 02
6)	Page 21	2.	Sep 03
7)	Page 21	4; 6; 7.	Sep 04
Announcement of Quiz 1			Sep 07
Date:		Monday, September 14	
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8)	Page 21	8; 9.	Sep 07
9)	Page 21	11.	Sep 10
	Page 29	1a,b,d; 2b.	
10)	Page 29	4; 7; 8; 9; 20.	Sep 11
11)	Page 34	1a; 4; 6a; 7; 8b; 13a; 14.	Sep 16
12)	Page 38	1.	Sep 17
13)	Page 38	5; 6; 8; 11.	Sep 18
14)	Page 43	2 (just find $\inf S$ and $\sup S$, no proof is required); 4; 5; 13.	Sep 21
Announcement of Test 1			Sep 23
Date:		Thursday, October 1	
Sections:		1.1 - 1.3, 2.1 - 2.5	
15)	Page 44	17; 18. Hint for both: Do not attempt to rewrite the entire proof.	Sep 23
16)	Page 50	2; 3; 7; 8; 9.	Sep 25
17)	Page 60	5a; 6b,d.	Sep 30
18)	Page 60	10; 11; 14; 15.	Oct 02
19)	Page 67	1a,c,d; 3; 4.	Oct 07
Announcement of Quiz 2			Oct 08
Date:		Monday, October 12	
Sections:		3.1	
20)	Page 67	1b; 9; 13b.	Oct 08
21)	Page 67	15; 16; 18; 19.	Oct 12
22)	Page 74	1; 2; 11; 12.	Oct 14

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23)	Page 75	13.	Oct 15
24)	Page 80	1.	Oct 16
25)	Page 80	3; 4; 6; 9; 11; 14.	Oct 19
26)	Page 86	2.	Oct 21
27)	Page 86	3c; 5; 8.	Oct 22
28)		Let $x_n = \sum_{k=1}^n \frac{1}{k!}$.	Oct 23
		Show that the sequence (x_n) is contractive.	
29)	Page 104	10.	Oct 26
Announcement of Test 2			Oct 26
Date:		Monday, November 2	
Sections:		3.1 - 3.5, 4.1	
30)	Page 104	7; 11d; 12; 14.	Oct 29
31)	Page 110	1d; 3; 4; 5; 11b.	Nov 04
32)	Page 124	6; 8; 11.	Nov 05
33)	Page 135	1; 2; 7.	Nov 09
Announcement of Quiz 3			Nov 12
Date:		Monday, November 16	
Sections:		4.2, 5.1, 5.3	
34)	Page 144	2; 6; 9.	Nov 12
35)	Page 144	11; 12.	Nov 16
36)	Page 166	1d; 4; 10.	Nov 18
37)	Page 175	11.	Nov 19
Announcement of Test 3			Nov 20
Date:		Monday, December 7	
Sections:		4.2, 5.1, 5.3, 5.4, 6.1, 6.2, 7.1, 7.2	
38)	Page 175	7; 8.	Nov 20
39)	Page 201	4a.	Dec 02