Homework Assignments
365 MATH 384 - 01
Partial Differential Equations
Spring 2004
Dr. Goutziers

Text:	**Fourier Series and Boundary Value Problems**
Author:	**James Ward Brown, Ruel V. Churchill**
Publisher:	**McGraw-Hill**
Edition:	**Sixth**
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Office Hours: **M 10:00 am** **W 11:00 am** **Th 12:00 pm** **F 12:00 pm**

Assignment		**Date**
1)	Show that the boundary value problem $u''(x)+u(x)=-1$ $u(0)=0, u'\left(\frac{\pi}{2}\right)=1$ has no solution.	Jan 21
2) Page 8	1; 3.	Jan 23
3) Page 15	7.	Jan 26
4) Page 15	2; 3; 4.	Jan 30
Announcement of Quiz 1		**Jan 31**
Date:	**Friday, February 6**	
Sections:	**1-4,6,7.**	
Location:	**Fitzelle Hall 215**	
5) Page 20	1; 2; 5.	Feb 02
6) Page 23	3; 4.	Feb 04
7) Page 29	4.	Feb 09
8) Page 30	5; 6.	Feb 11
9) Page 39	1.	Feb 13
Announcement of Test 1		**Feb 16**
Date:	**Friday, February 20**	
Sections:	**1-4,6-13.**	
Location:	**Fitzelle Hall 215**	
10) Page 39	4; 5; 9.	Feb 16
11) Page 47	1; 2. In Problem 2, choose $f(x)=x(x-\pi)^2$, compute the coefficients A_n, and use a partial sum of 50 terms to plot the solution $u(x,y)$.	Feb 27
Announcement of Quiz 2		**Mar 08**
Date:	**Friday, March 12**	
Sections:	**14-17**	
Location:	**Fitzelle Hall 200 (Math-CS-Stat Lab)**	
12) Page 53	4; 5. (continued on the next page)	Mar 08

In Problem 4 take $f(x)=x(1-x)$ and use a partial sum of 50 terms to plot the solution on the rectangle $\{(x,y)\,|\,0\le x\le 1, 0\le y\le 2\}$.

13) Page 64	2; 3; 4; 6.	Mar 19
Announcement of Test 2		**Mar 22**
Date:	**Friday, March 26**	
Sections:	**14-17, 19-22**	
Location:	**Fitzelle Hall 200 (Math-CS-Stat Lab)**	
14) Page 65	8; 9.	Mar 22
15) Page 72	1; 4; 5; 7.	Mar 29
16) Page 81	1; 3; 4; 6.	Mar 31
17) Page 83	8	Apr 14
Page 97	10; 11.	
Announcement of Quiz 3		**Apr 18**
Date:	**Friday, April 23**	
Sections:	**23-31**	
Location:	**Fitzelle Hall 200 (Math-CS-Stat Lab)**	
18) Page 97	14	Apr 19
19) Page 96	5; 6(b).	Apr 21
20) Page 128	6	Apr 26
21) Page 133	2; 3.	Apr 30
Announcement of Test 3		**May 03**
Date:	**Friday, May 7**	
Sections:	**23-33, 39-42**	
22) Page 141	2.	May 03