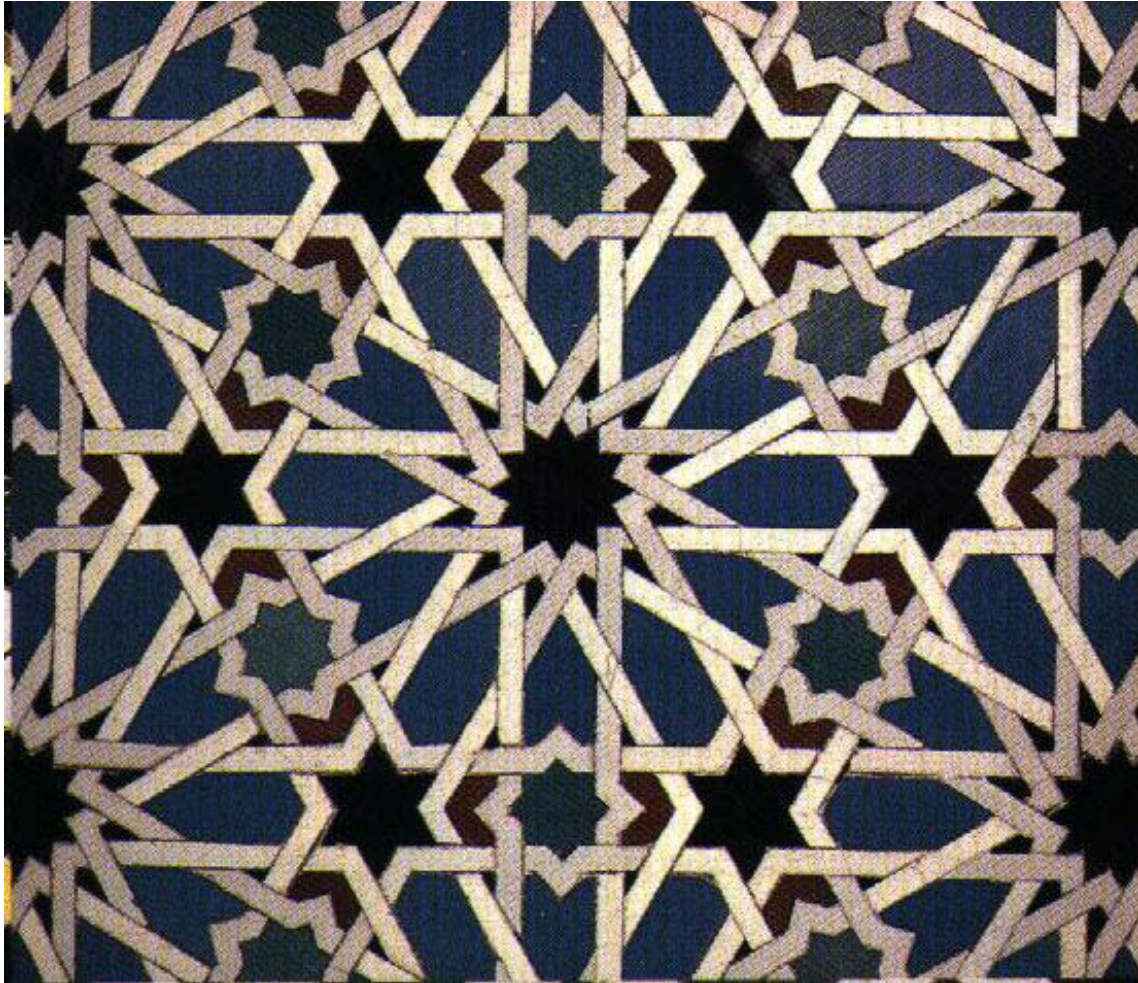


McMaster University  
**Arts and Science 1D6**



Drs Deirdre Haskell & Matt Valeriotte  
Winter 2013

[http://www.math.mcmaster.ca/~haskell/a&s1d\\_12-13/a&s1d-webpage.html](http://www.math.mcmaster.ca/~haskell/a&s1d_12-13/a&s1d-webpage.html)

Front cover:

Tile pattern from Alhambra Palace, Granada, Spain

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## Disclaimer

Information contained in this Course Package is subject to change. Changes and corrections will be announced in class and on the course web page

[http://www.math.mcmaster.ca/~haskell/a&s1d\\_12-13/a&s1d-webpage.html](http://www.math.mcmaster.ca/~haskell/a&s1d_12-13/a&s1d-webpage.html)

This course package was prepared in December 2012 and does not reflect any changes made after that date.



# Important Dates

## Important Dates

### **Week 1 \* January 7-11**

**Monday, January 7:** Classes begin. Work on **assignment 10**

### **Week 2 \* January 14-18**

Work on **assignment 11**

**Quiz week**

**Tuesday, January 15:** Last day for registration and adding or dropping courses.

### **Week 3 \* January 21-25**

Work on **assignments 11 and 12**

### **Week 4 \* January 28-February 1**

**Quiz week**

Work on **assignments 12 and 13**

### **Week 5 \* February 4-8**

Work on **assignments 13 and 14**

### **Week 6 \* February 11-16**

**Quiz week**

Work on **assignment 14**

### **February 18-22**

**Reading week, no classes.**

### **Week 7 \* February 25-March 1**

Work on **assignment 15**

**Week 8 \* March 4-8**

**Tuesday, March 5: Test 2.** Details (material covered, times and locations) will be announced on the course web page.

Work on **assignment 15**

**Week 9 \* March 11-15**

Work on **assignment 16**

**Friday, March 15:** Last day for canceling courses without failure by default.

**Week 10 \* March 18-22**

**Quiz week**

Work on **assignments 16 and 17**

**Week 11 \* March 25-29**

Work on **assignments** – from now on, it will be advertised in class and on the web page

**Friday, March 29:** Good Friday, no classes.

**Week 12 \* April 1-5**

**Quiz week**

Work on **assignments**

**Week 13 \* April 8-10**

**Wednesday, April 10:** Classes end.

Detailed final exam information will be posted on the course web page.

Final exams: April 12-30, 2013

Deferred exams: June 17-21, 2013

# Suggested Practice Questions

- lectures might not follow the order as listed below
- the section and question numbers refer to the 4<sup>th</sup> edition of the text. For those using the 3<sup>rd</sup> edition, many of the question numbers are the same. Below, a number (or number range) that appears within square brackets should be used instead of the preceding number (or number range) if you are using the 3<sup>rd</sup> edition of the text.

## DIFFERENTIAL EQUATIONS

Section 7.1	1-11 odd, 15 [13]
Section 7.2	1-9 odd
Section 7.3	1-15 odd
Section 7.4	3, 9, 11, 13, 17, 19
Section 7.5	1, 3, 5, 7, 9
Section 7.6	1, 5, 7 [1, 3, 5]

## SEQUENCES AND SERIES

Section 8.1	3-13 odd, 14-18 all, 25, 27 [21, 23]
Section 8.2	1, 9, 10, 11-37 odd, [11-31 odd], 58-63 all [48-53 all]
Section 8.3	1, 3, 5, 6-10 all, 11-23 odd
Section 8.4	2, 3-11 odd, [3-9 odd], 15, 21-33 odd, 37a, 37c [13, 19-29 odd, 33a, 33c]
Section 8.5	1-17 odd, 25 [1-19 odd]

Section 8.6            3-7 all, 9-15 odd, 23, 25, 27 [21, 23, 25]

Section 8.7            5-15 odd [5-13 odd], 25-33 odd [19-25 odd], 39, 43-53  
odd, 59, 63 [31-43 odd, 49, 51]

Section 8.8 [8.9]    3, 5, 7, 11, 13, and in the 4<sup>th</sup> edition, 21-24

[Section 8.8            1, 3, 5, 6]

## FUNCTIONS OF SEVERAL VARIABLES

Section 11.1           1-9 odd, 12 [10], 15-25 odd [13-21 odd], 39, 40 [35, 36]

Section 11.2           5, 6, 7-13 odd, 27, 29, 31, 35 [25, 27, 29, 33]

Section 11.3           1, 3, 6, 9, 15, 17, 23, 27, 31, 41, 44, 47, 55, 57, 70b, 70c  
[1, 3, 6, 7, 13, 15, 19, 23, 27, 37, 40, 43, 51, 53, 64b, 64c]

Section 11.4           1, 3, 11, 13 [9, 11]