MA 30100 Assignments

Assignment 1:

Read Chapter 1 and the Guidelines for Written Work in the notes. The id is student and the password is 1492

Do : Chapter 1, p. 14: 1(a), 3, 5, 11(b), 12(b)

Assignment 2:

Read p. 19-26

1. Grade your work on Assignment 1. The solution, together with grading instructions, is posted on the class web page.

You will be graded on how many of your mistakes you find. The grade you give yourself will not be recorded.

Also do:

Chapter 1, p14: 1(b), 12 (c)

Chapter 2, p. 29: 1(a), (k) (See Example 5, p. 25)

In the examples in the notes, I tend to make comments to the effect that "we may reverse the above sequence of inequalities." In these exercises I want to actually see the reverse argument.

Assignment 3:

Chapter 1, p.14, 12(d)

Chapter 2, p.29, 1(c),(l) (Ans. $(-\infty, -1) \cup (-2/3, \infty)$), 6(a), 9(ii)

Chapter 3, p.48, 2(a), (e)

Assignment 4:

Chapter 1, p.14, 13(a), (c)

Chapter 2, p. 29, 1(g) Hint: Take cos of each side. 6(b), 9(iii)

Chapter 3, p.48 2(m), 3(a), (b), (c)

Assignment 5:

Read p. 42-46 and p. 53-61

Chapter 2, p. 29,

6 (d), (e). Note: In (e) you will need Axiom (Z) on p. 7 of the notes.

Chapter 3, p.48

3(e), (f), (g), 7(a), (g), (i)

Chapter 4, p.67

1, 2(a)

Assignment 6:

Read p. 62-67

Chapter 3, p.48

3(i), 7(d), 9(b) (In a way, this is similar to Example 8, p. 45), (c) (See Example 10, p. 47)

Chapter 4, p.67

2 (b), (c)

Assignment 7 (Turn in on Tuesday 2/7):

Chapter 4, p.67

2 (f) (See Example 7, p.62), (p), (q), 14(b)

Assignment 8:

Chapter 4, p.67

2(g), (r), 11(d)(Skip (i) and (ii)), 14(a), 24

Chapter 5, p. 80

3(a)

Assignment 9:

Chapter 4, p.67.

2(m), 11(g)(Do not do parts (i), (ii), and (iii)), 33

Chapter 5, p. 80

1(a), 5

Assignment 10:

Chapter 4, p.67.

2(n), 32 Note: You cannot do this problem by quoting Lemma 2 on p. 76. Why not?, 34

Chapter 5, p. 80

1(b), 6

Chapter 6,p.92

1(a)(Prove your answer), (b) (No proof or explanation required), 1(k), 2(k)