MAT110.405 Real Analysis

Reading assignment
Week 1 (9/11-9/13) 2.1, 2.2
Week 2 (9/18-9/20) 2.3, 3.1, 3.2
Week 3 (9/25-9/27) 1.2, 3.2, 3.3
Week 4 (10/2-10/4) 3.3, 3.4, 4.1
Week 5 (10/9-10/11) 4.2, 5.1
Week 6 (10/17-10/18) 5.1, 5.2
Week 7 (10/23-10/25) 5.3, 5.4
Week 8 (10/30-11/1) 5.3, 5.4
Week 9 (11/6-11/8) 6.1, 6.2
Week 10 (11/13-11/15) 6.2, 7.1
Week 11 (11/20-11/22) 7.1, 7.2
Week 12 (11/27-11/29) 7.2, 7.3
Week 12 (12/4-12/6) 7.3, 7.4

Homework problems
Due Tue 9/19: page 37 #4, 5, 8; page 48 #1
Due Tue 9/26: page 48 #3,5,7,10; page 54 #2,3,7,10
Due Tue 10/3: page 13 #1,4,5; page 84 #1,2,4,5,7
Due Tue 10/10: page 98 #1,5,6,8,10,15; page 106 #1,2,3,6
Due Tue 10/18: page 125 #1,2,5,7,8,11; page 138 #3,4,5,7,8
Due Fri 10/27 page 153 #1,5,6,7
Due Tue 11/7: page 164 #1,2,8,10,11; page 176 #1,3,5,10,14; page 192 #1,4
Due Tue 11/14: page 192 #14,23; page 217 1,2,4,8,12
Due Tue 11/21: page 231 #3,6,9,11; page 249 #3,4,5,6,7 *Note: p. 249 #7 has a typo. Replace $z = 1/\sqrt{2} \pm i/\sqrt{2}$ with $z = \pm(1/\sqrt{2} + i/\sqrt{2})$.) For p. 231 #6, assume that $g(x)$ is bounded.
Due Tue 12/5: page 262 #1,5; page 274 #2,3,5,7,8,9
Will not be collected: page 294 #2,6,7a,8a (solution set #11 is already posted)

FINAL EXAM - MONDAY, DECEMBER 18, 2-5PM