

**Math 413 Analysis I**  
Problem Set 9

**Due Friday October 31**

Do the following problems from Abbott's *Understanding Analysis*.

Exercise 4.3.5

Exercise 4.3.7

Exercise 4.3.8 (in part b) first assume  $f$  and  $g$  are continuous, then decide what happens if you don't know that  $f$  and  $g$  are continuous).

Exercise 4.3.10

**Bonus Problem 6** Exercise 4.3.9 (hand in separately)