**Take home Exam #3: Organic Chemistry 3514 Fall 2016: Due Tuesday by 3 PM December 13**

Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_/50 pts

Describe a reasonable synthetic route in the space provided for all the conversions below.

Problem 1 (5 pts)



Problem 2 (5 pts)



 Major minor

Problem 3 ( 10 pts)



 aan

 anti diol only

Problem 4 (10 pts) (hint: it’s not a Corey-House...also- check the organometallic /redox list of supplement 15)



Problem 5 (10 pts)



Problem 6 (10 pts):

