6. Give the major product(s) of the following reactions showing stereochemistry in 3-dimensions where necessary and including all stereoisomers.

a) 

b) 

c) 

d) 

e) 

f) 

2. Show how you would accomplish the following synthesis. Include all isolated intermediate compounds and reagents over the arrows.

3. Draw the mechanism of the following reaction showing all intermediates and electron-pushing arrows.