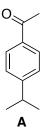
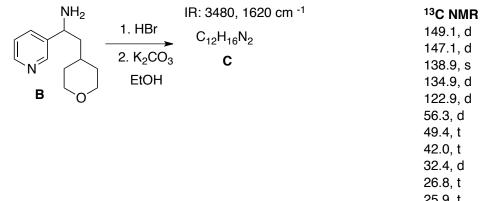
Chem 332 Spring 2012 Homework #7 Due 10 AM Monday April 2nd

Name_

1. (10 points) Using any piece that contributes three or fewer carbons to the final product, and any monosubstituted benzene derivative that contributes at most seven carbons to the final product, outline a synthesis of **A**.



2. (10 points) Deduce the structure of **C**, and draw an arrow-pushing mechanism for its formation.



¹³ C NMR	¹ H NMR
149.1, d	8.67, m, 1H
147.1, d	8.47, m, 1H
138.9, s	7.74, m, 1H
134.9, d	7.24, m, 1H 4.02, dd, J = 5.6, 8.9 Hz, 1H
122.9, d	3.1, m, 2H
56.3, d	3.05, m, 2H
49.4, t	2.2, m, 1H
42.0, t	1.9, m, 1H 1.6, m, 5H
32.4, d	1.0, 11, 511
26.8, t	
25.9, t	
21.8, t	

3. (10 points)Draw an arrow-pushing mechanism for the conversion of D to E.

bb bf

