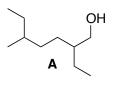
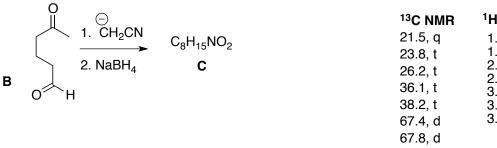
Chem 332 Spring 2012 Homework #4 Due 10 AM Monday March 5th

Name_

1. (10 points) Using any piece that contributes three or fewer 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.



 ¹³C NMR
 ¹H NMR

 21.5, q
 1.20, d, J=6.2 Hz, 3H

 23.8, t
 1.4-1.7, m, 6H

 26.2, t
 2.50, dd, J=5.1, 16.6 Hz, 1H

 36.1, t
 3.1, m, 2H (exchanges)

 38.2, t
 3.83, m, 1H

 67.4, d
 3.95, m, 1H

 67.8, d
 117.8, s

3. (10 points)Draw an arrow-pushing mechanism for the conversion of ${\bf D}$ to ${\bf E}.$

