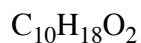
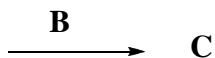
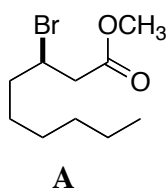


Fall 2008

Homework #8

due: 10 a.m. Mon. Nov. 10th

1. (10 points) Draw the structures of **B** and of **C**. Please show stereochemistry clearly.

**¹³C NMR:**

167.1, s

149.8, d

120.8, d

51.3, q

32.2, t

31.6, t

28.8, t

28.0, t

22.6, t

14.1, q

¹H NMR:

0.89, t, J = 7.5 Hz, 3H

1.3-1.6, m, 8H

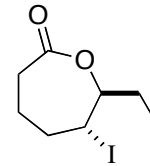
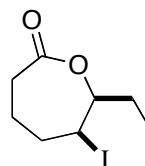
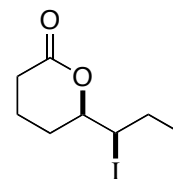
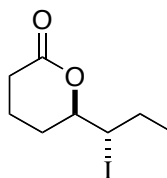
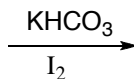
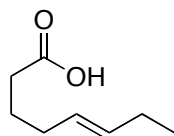
2.20, dt, J = 7.3, 7.7 Hz, 2H

3.73, s, 3H

5.82, d, J = 15.4 Hz, 1H

6.95, dt, J = 15.4, 7.3 Hz, 1H

2. (10 points) Which product would be formed? Why?



3. (10 points) Write a synthesis route to **D**. You may use any starting material that contributes three or fewer carbons to the final product. Absolute configuration is not important, but relative configuration is.

