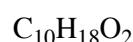
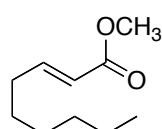
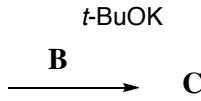
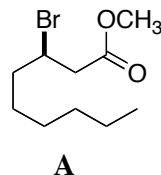


Fall 2008

Homework #8

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

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

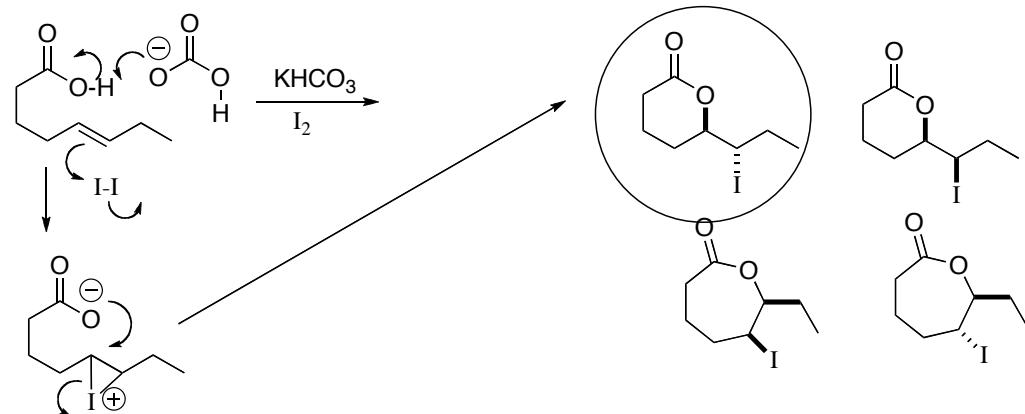


^{13}C NMR:

167.1, s	0.89, t, $J = 7.5$ Hz, 3H
149.8, d	1.3-1.6, m, 8H
120.8, d	2.20, dt, $J = 7.3, 7.7$ Hz, 2H
51.3, q	3.73, s, 3H
32.2, t	5.82, d, $J = 15.4$ Hz, 1H
31.6, t	6.95, dt, $J = 15.4, 7.3$ Hz, 1H
28.8, t	
28.0, t	
22.6, t	
14.1, q	

1H NMR:

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.

