Chem 331

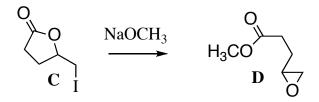
Name

Fall 2008 Homework #5 due: 10 a.m. Mon. Oct 13th

1. (10 points) Deduce the structure of **B**, and fill in the reagent.

 $C_{10}H_{22}O$ B ¹H NMR: ¹³C NMR: 0.89, d, J=7.6 Hz, 6H 8.2, q 0.95, t, J = 7.3 Hz, 3H 21.6, t 1.15, s, 3H 22.6, q (2) 1.2-1.6, m, 9H 26.4, q 2.44, bs, 1H (exchanges) 28.0, d 34.3, t 39.6, t 41.6, t 72.9, s

2. (10 points) Draw an arrow-pushing mechanism for the following transformation.



3. (10 points) Outline a synthesis of E. You may use any material that contributes three or fewer carbons to the final product.

