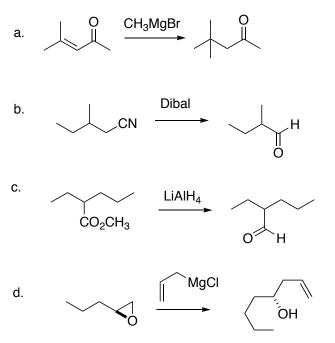
Name_____

Chem 332 Spring 2011 Homework #3 Due 10 a.m.Monday, Feb 28th

1. (20 points) The following reactions would not proceed as shown. Please draw the expected major product.



3. (10 points) Deduce the structure of **B**, and draw an arrow-pushing mechanism for its formation.

	IR: 1722, 1648 cm ⁻¹ 1. Zn/AcOH $2. Ph_3P=CHCO_2Me$ B	C ₁₁ H ₁₆ O ₄
1 44	¹ H NMR: 6.79, dd, J = 5.6, 15.6, 1H 6.08, dd, J = 1.6, 15.6, 1H 5.69, ddd, J = 7.0, 10.3, 17.7 Hz, 1H 5.37, dd, J = 17.7, 1.5 Hz, 1H 5.27, ddd, J = 0.9, 1.5, 10.3 Hz, 1H 4.78, ddd, J = 1.6, 5.6, 7.0 Hz, 1H 4.71, dt, J = 0.9, 7.0 Hz, 1H 3.75, s, 3H 1.56, s, 3H 1.42, s, 3H	¹³ C NMR: 166.4, s 143.9, d 133.4, d 122.2, d 119.3, t 109.6, s 79.8, d 77.5, d 51.7, q 27.7, q 25.4, q