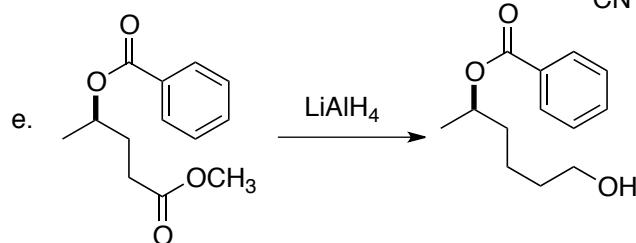
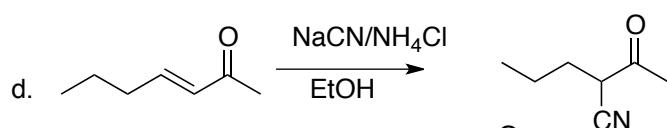
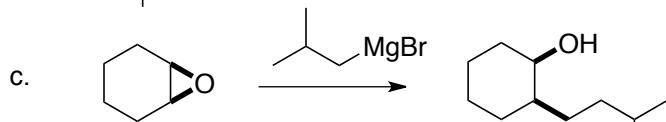
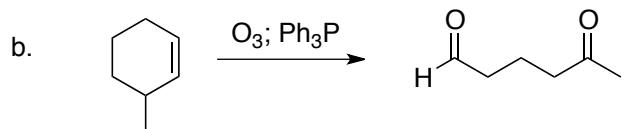
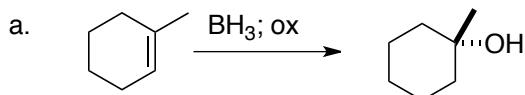
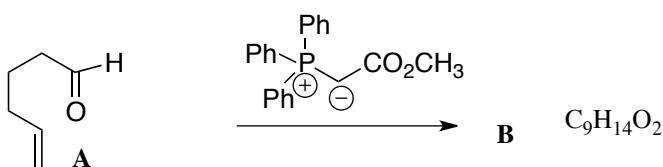


1. (20 points) The reactions would not proceed as indicated. Please draw the actual product, showing stereochemistry clearly.



2. (10 points) Draw the structure of **B**, and the mechanism for its formation from **A**.



B C₉H₁₄O₂

13 C NMR:	1 H NMR:
166.5, s	6.14, dt, J=11.5, 7.5 Hz, 1H
150.7, d	5.68, d, J=11.5 Hz, 1H
131.3, d	5.77, m, 1H
119.0, d	5.01, d, J=10.5, 1H
116.4, t	4.89, d, J=15.8 Hz, 1H
50.6, q	3.80, s, 3H
31.7, t	2.5, m, 2H
29.3, t	2.2, m, 2H
26.4, t	1.7, m, 2H