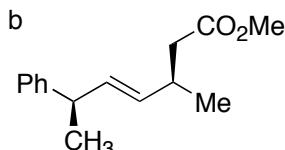
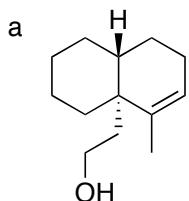
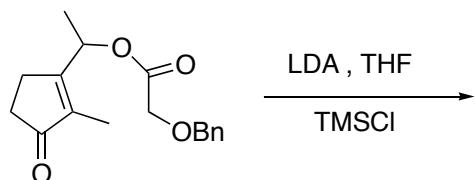


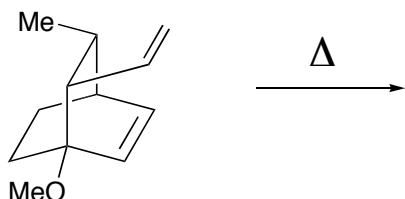
1) Propose syntheses from commercial sources



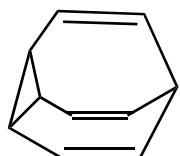
2) Predict the product. Use a model to predict the diastereoselectivity



3) Predict the product. Use a model to predict the diastereoselectivity



4) At temperatures slightly above rt, Bullvalene* has only one resonance in the ^{13}C NMR spectrum. Explain.



Bullvalene

*Bullvalene was named after William "Bull" Doering by his students

5) Complete database assignment 4, and then conduct the search of the following reaction

* = free site

