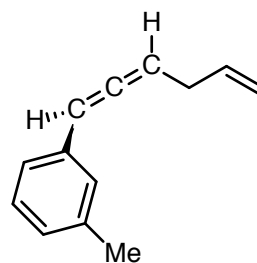
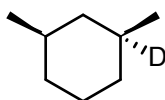


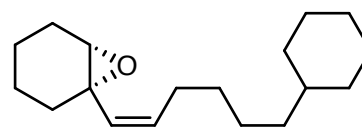
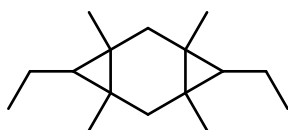
Chemistry 852
EXAM I
February 23, 2018

Devise stereospecific syntheses of the following compounds using only readily available starting materials and reactions which would be expected to go in high yield and with good selectivity.

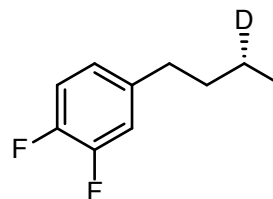
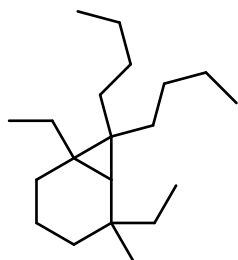
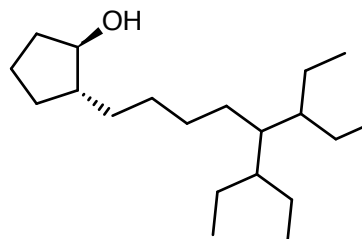
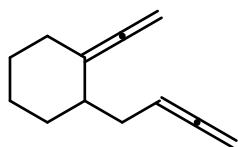
I. (60 pts) Answer only 6.



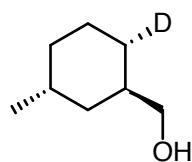
enantiomer shown



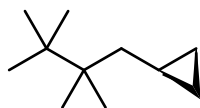
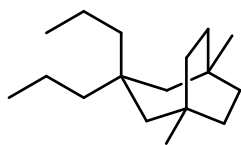
enantiomer shown



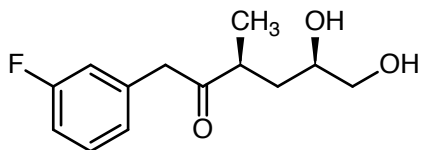
enantiomer shown



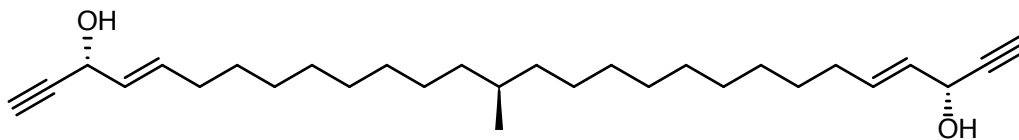
II. (40 pts) Answer only 2.



enantiomer shown



enantiomer shown



miyakosyne A
Tetrahedron **2011**, 67, 4530.
enantiomer shown