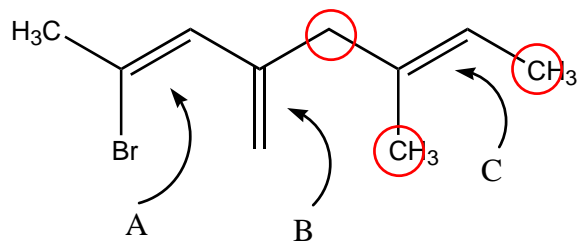


IV. Consider the alkene shown to the right and answer each question. 4 pts each, 12 pts total



1. Which of the double bonds is/are of the E geometry? (list by letter)

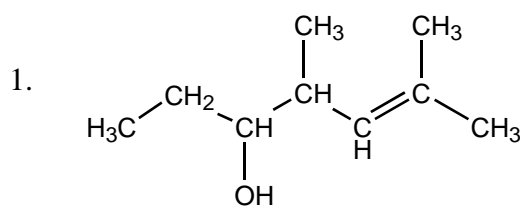
C

2. Which alkenes are conjugated? (list by letter)

A and B are conjugated with each other

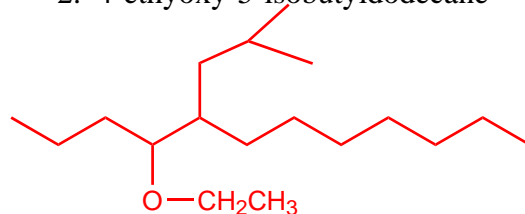
3. Circle all of the carbons coplanar with the carbons of alkene C.

V. Name each of the compounds below using IUPAC nomenclature. For each name, draw the complete structure. 5 pts each, 20 pts total

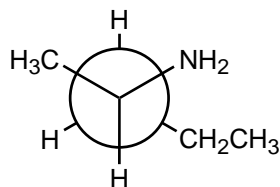


4,6-dimethylhept-5-en-3-ol

2. 4-ethoxy-5-isobutyldodecane

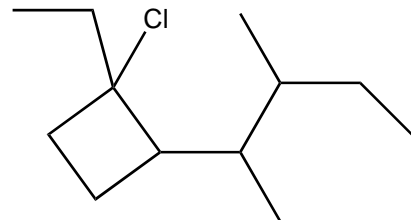


3.



2-pentanamine

4.

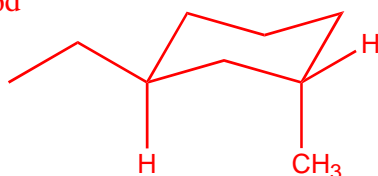


1-chloro-2-(1,2-dimethylbutyl)-1-ethylcyclobutane

VI. Answer each of the following. 5 pts each, 10 pts total.

1. Draw the most stable chair conformation of trans-1-ethyl-3-methylcyclohexane

this was HW problem 2.56d



2. Which Newman projection represents the most stable conformation? (circle best answer)

