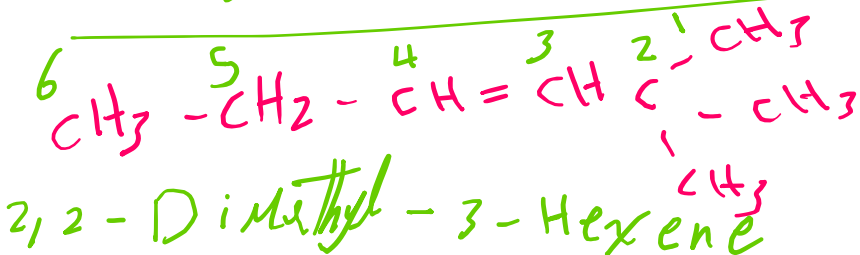
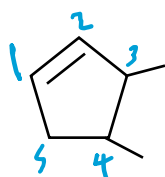
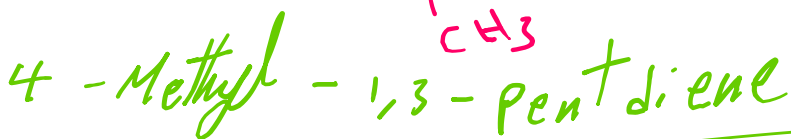
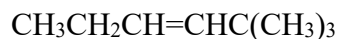
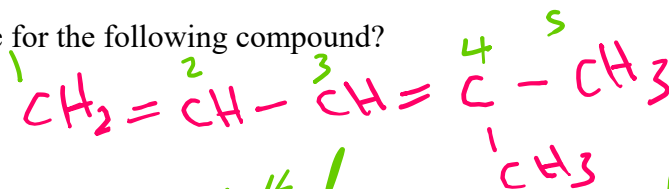
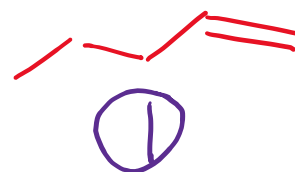
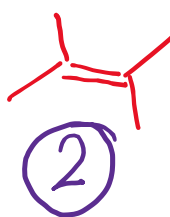
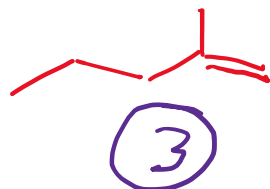
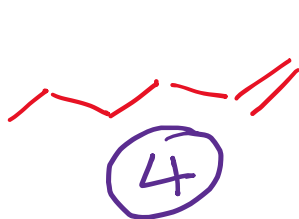


Exercise CH3 240 Chem

- What is the IUPAC name for the following compound?

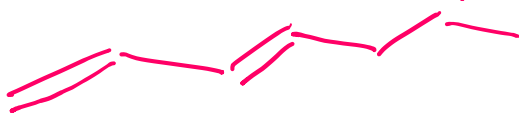


- Rank the following compounds in order of increasing boiling point.  
Hex-1-ene, 2-Methylpent-1-ene, 2,3-Dimethyl but-2-ene, Pent-1-ene



- Classify each diene? (cumulated, conjugated, isolated)

1,3-heptadiene



conjugated

2,5-hexadiene



Isolated diene

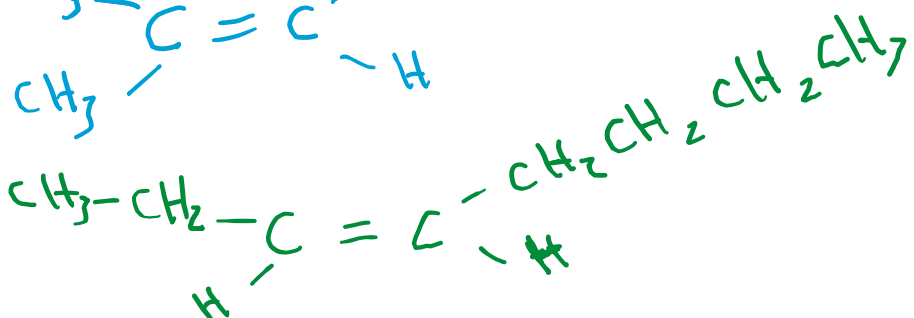
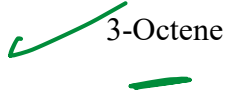
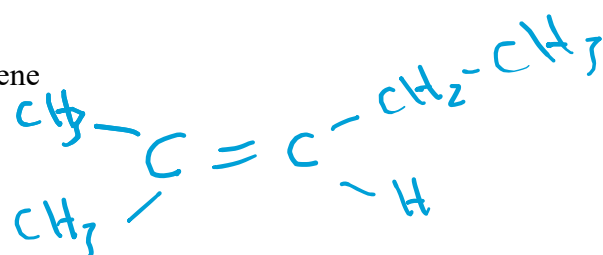
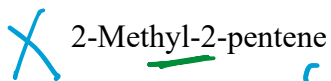
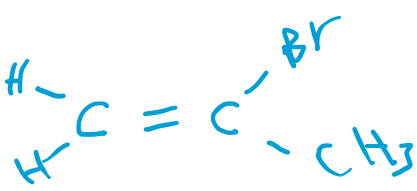
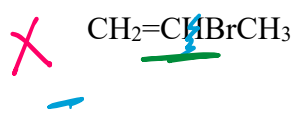
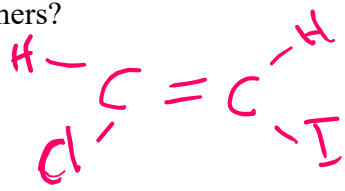
2,3-pentadiene



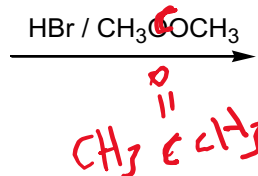
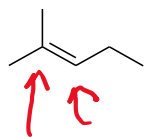
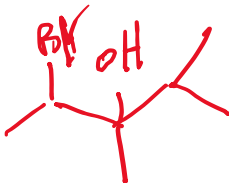
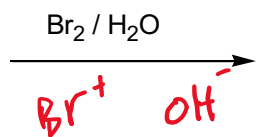
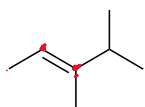
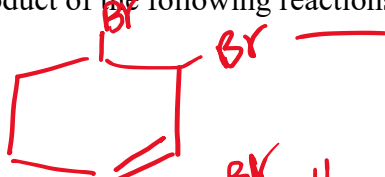
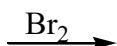
Cumulated diene

Exercise CH3 240 Chem

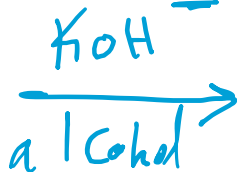
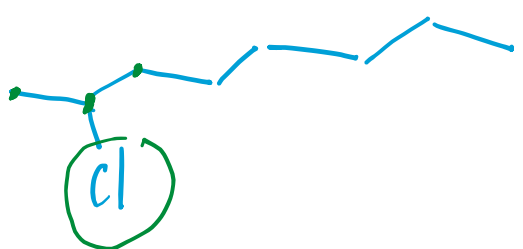
- Which compounds can exist as geometric isomers?



- What is the product of the following reactions?

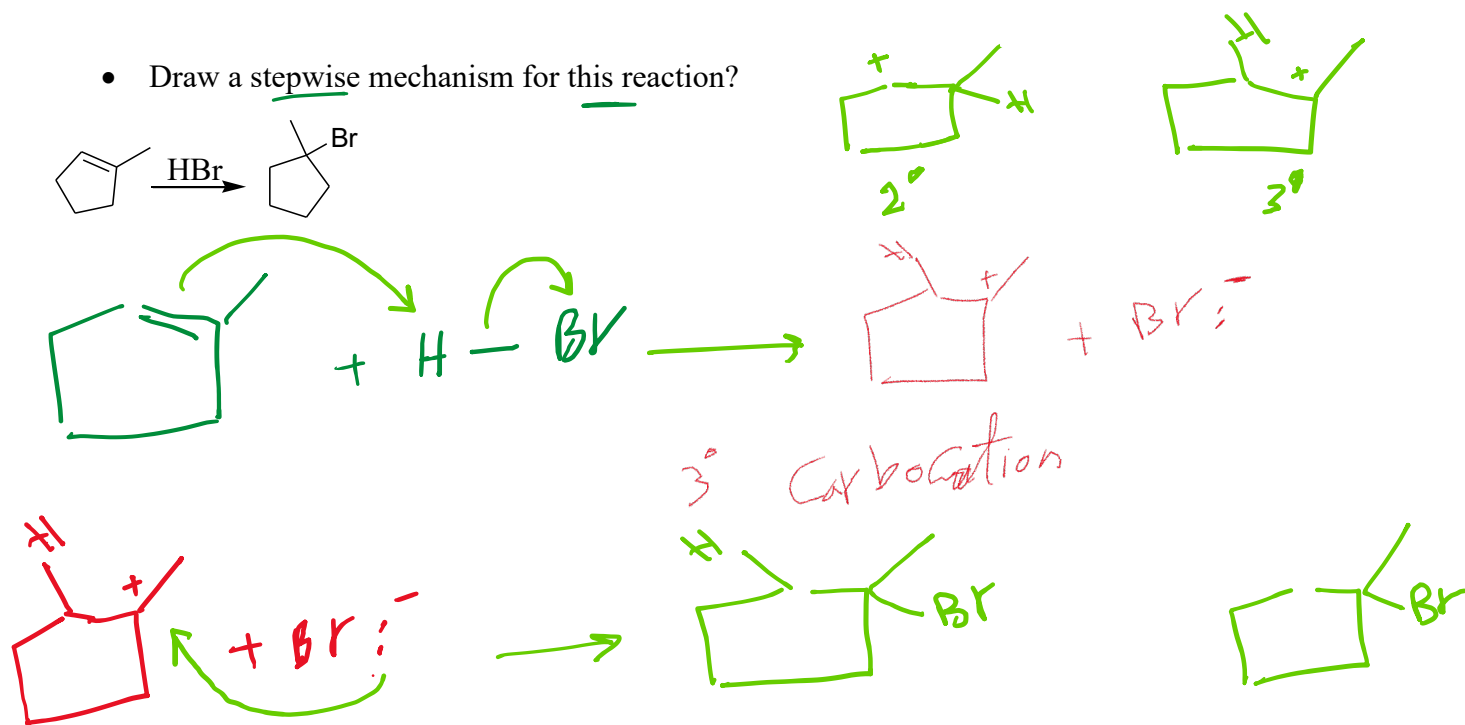


- How can synthesis Oct-2-ene from 2-Chlorooctane?

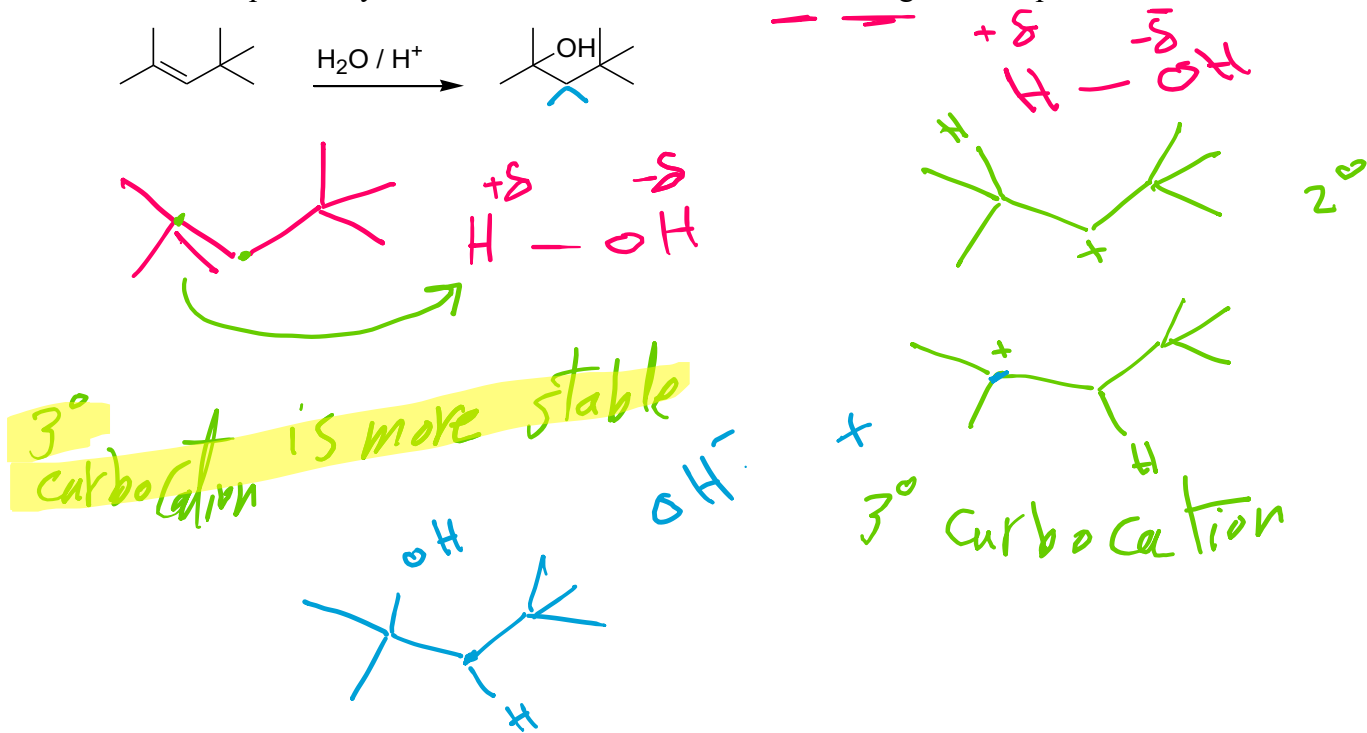


Exercise CH3 240 Chem

- Draw a stepwise mechanism for this reaction?



- Explain why the addition of  $\text{H}_2\text{O}$  to alkenes **A** forming addition products **B**?

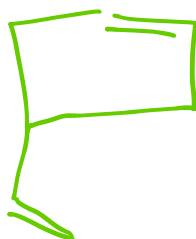
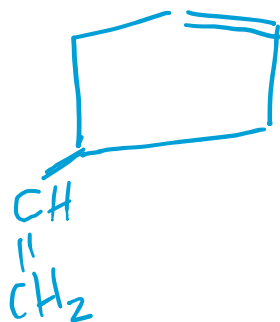
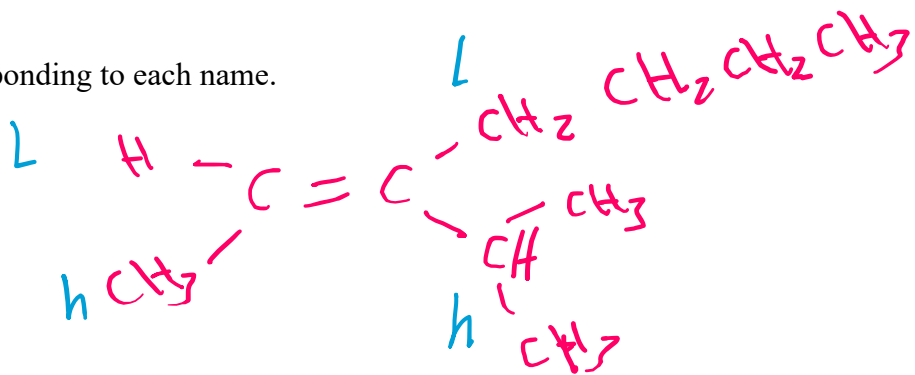


Exercise CH3 240 Chem

- Give the structure corresponding to each name.

(2Z)-3-isopropyl-2-heptene

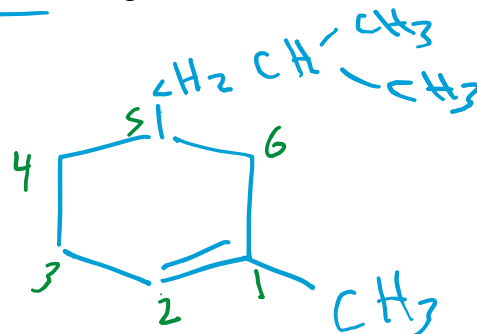
4-vinylcyclopentene



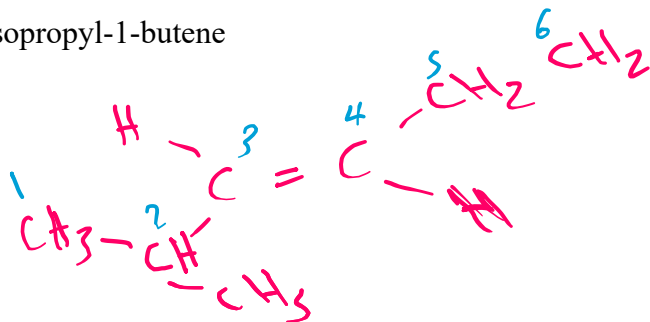
- Explain why the following name is incorrect and give the correct IUPAC name.

→ 4-isobutyl-2-methylcyclohexene

5-Isobutyl-1-methylcyclohexene



→ (E)-1-isopropyl-1-butene



Trans-2-methyl-3-hexene

@chem3iphys