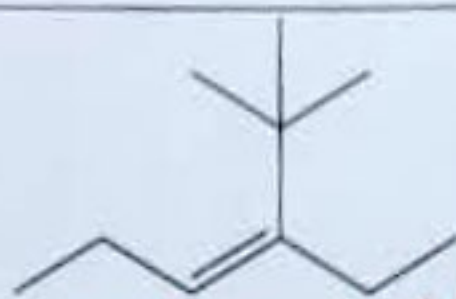
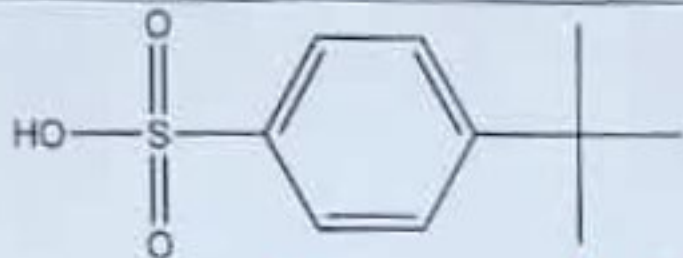
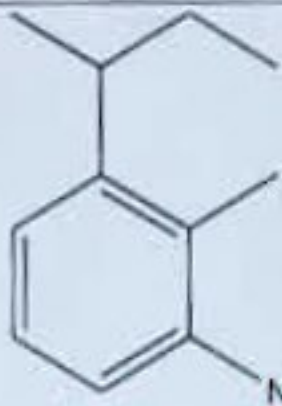
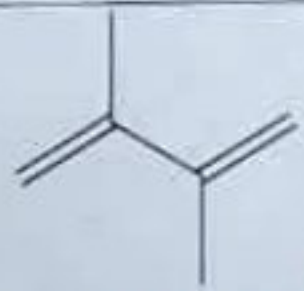


Midterm exam
Time: 1 hoursOrg. Chem.
2nd semester 21/22اسم الطالب/ة (باللغة العربية):
اسم المدرس:

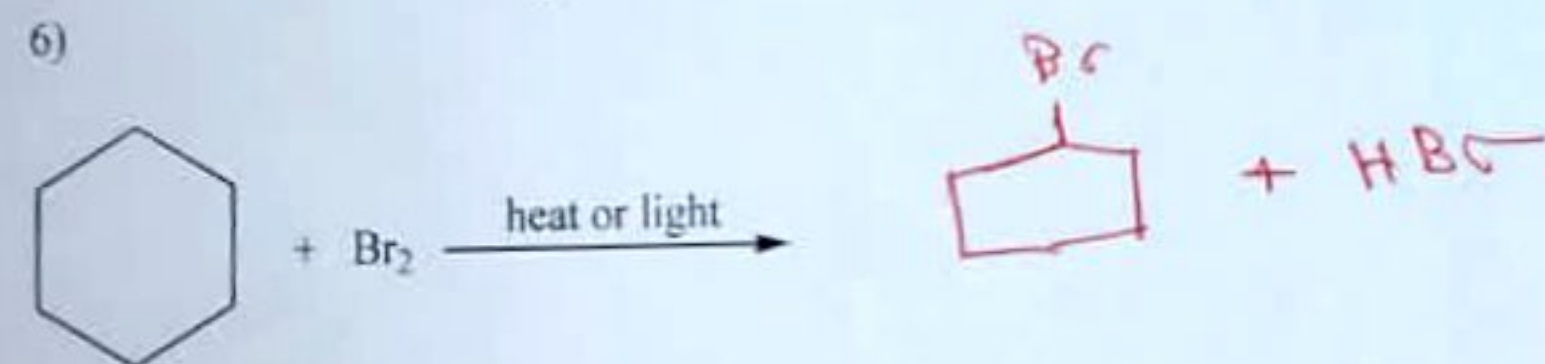
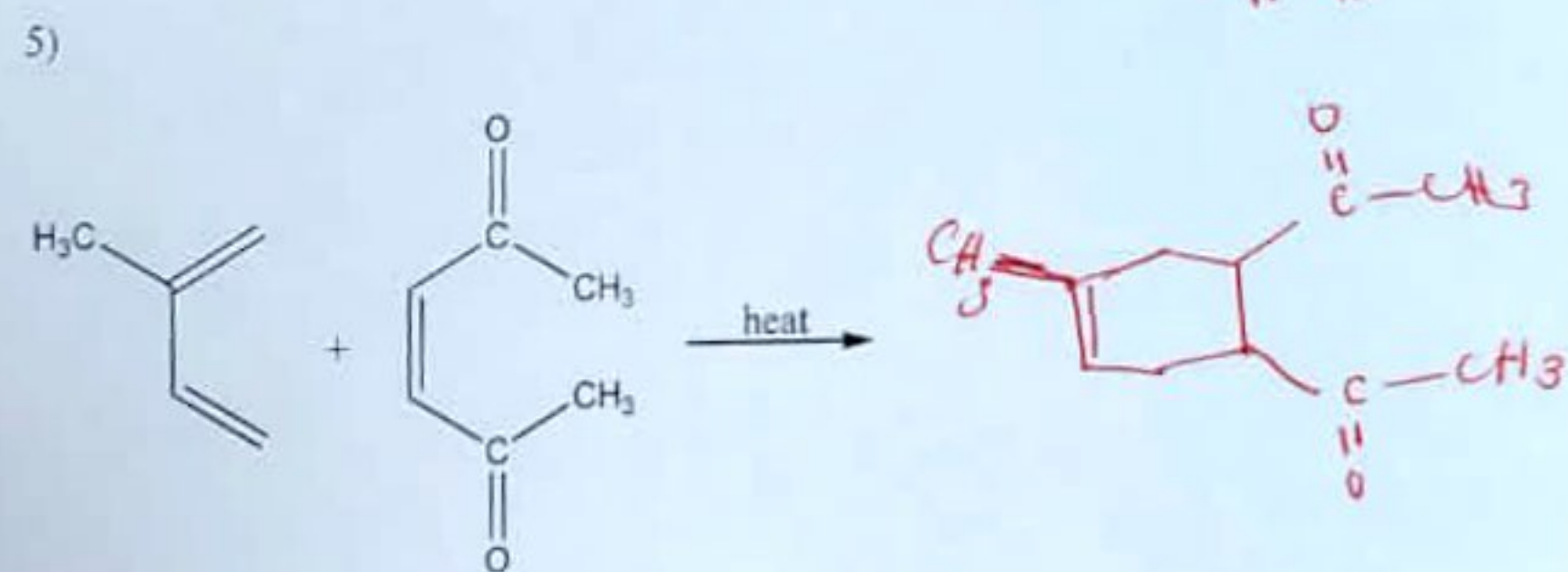
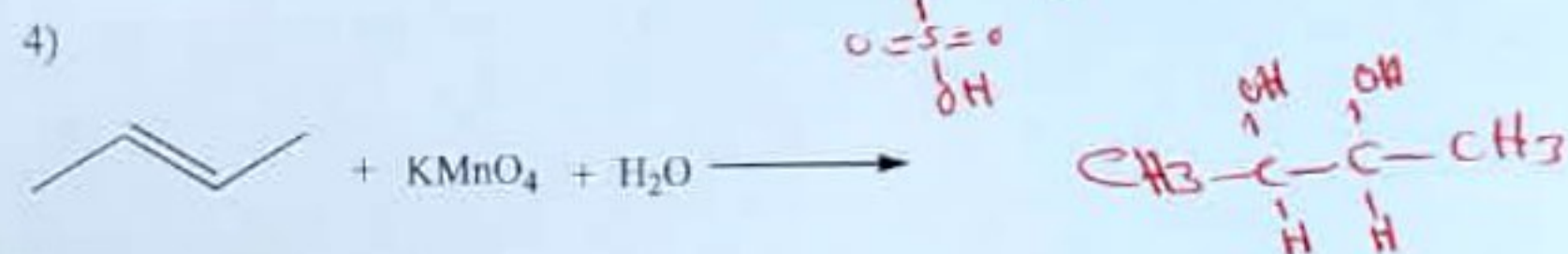
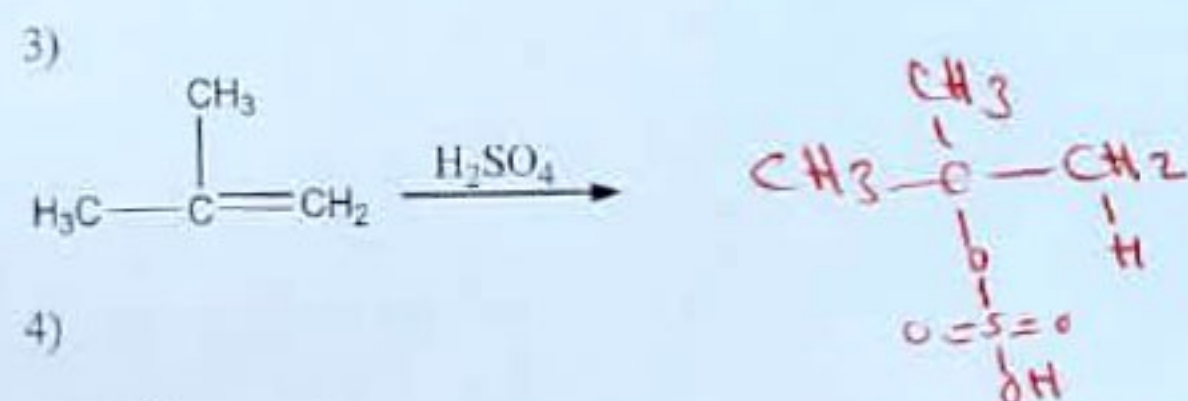
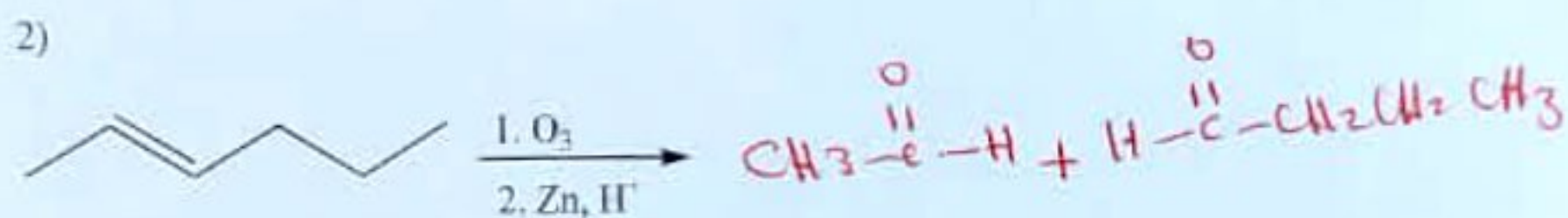
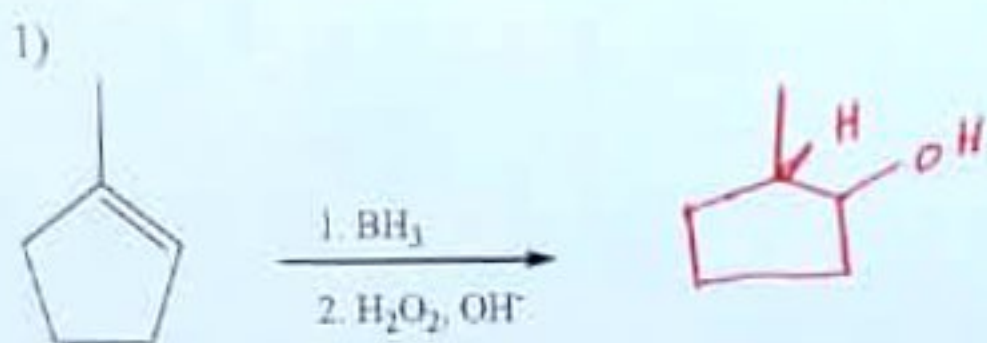
6

Q1. Name the following compounds:

 2-chloro-4-isopropyl-6-methyl octane	 (Z)-3-ethyl-2,2-dimethyl-3-hexene
 4-tert-butylbenzenesulfonic acid	 1-sec-butyl-2-methyl-3-nitrobenzene
 2,3-dimethyl-1,3-butadiene	 2,6-dimethyl-3-heptyne

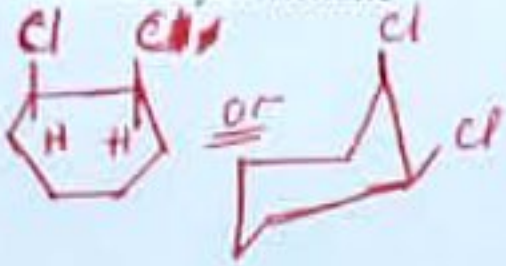
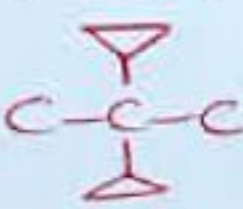
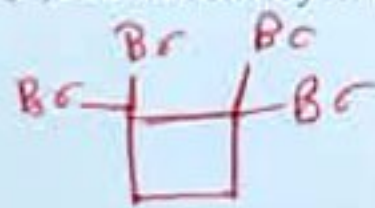
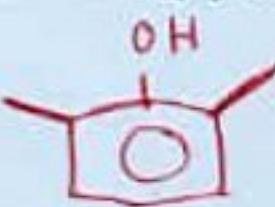
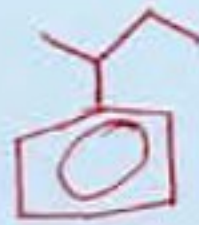
2
1
6

Q5. Complete the following reactions: $8+10 = (18)$



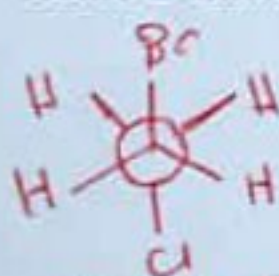
⑥

Q2. Draw the structure of the following compounds:

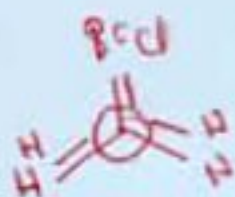
Cis-1,2-dichlorocyclohexane 	3-isopropyl-6-methyl-1-cyclohexene 
2,2-dicyclopropylpropane 	1,1,2,2-tetrabromocyclobutane 
2,6-dimethylphenol 	sec-butylbenzene 

②

Q3. Using Newman projection formula draw the most and the least stable conformations of 1-bromo-2-chloroethane.



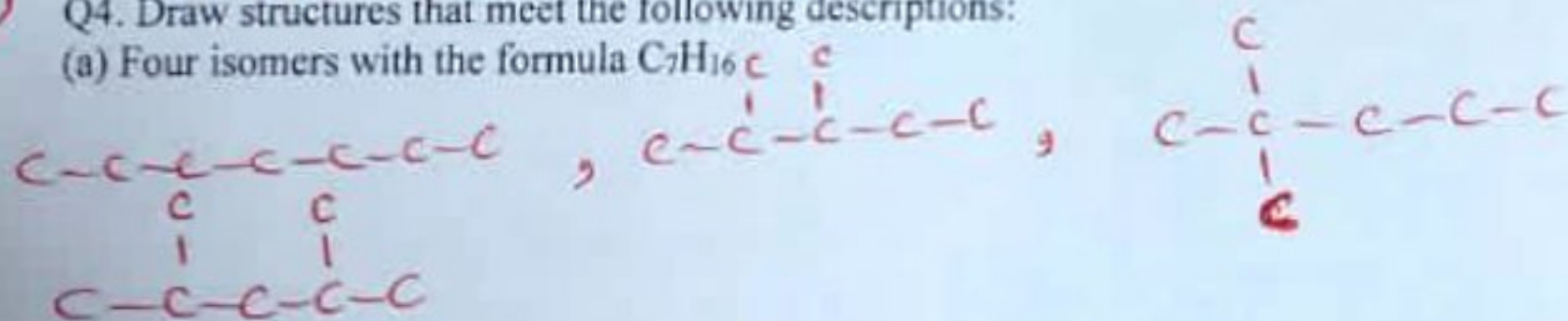
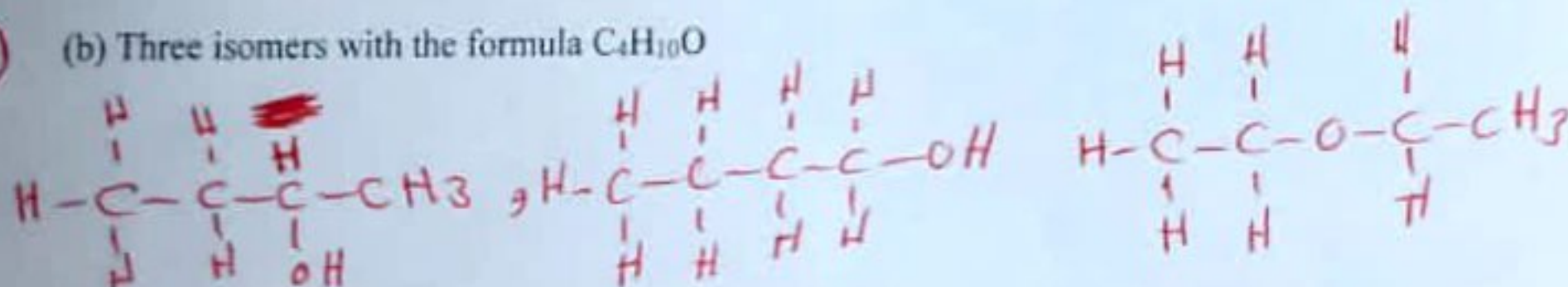
most stable



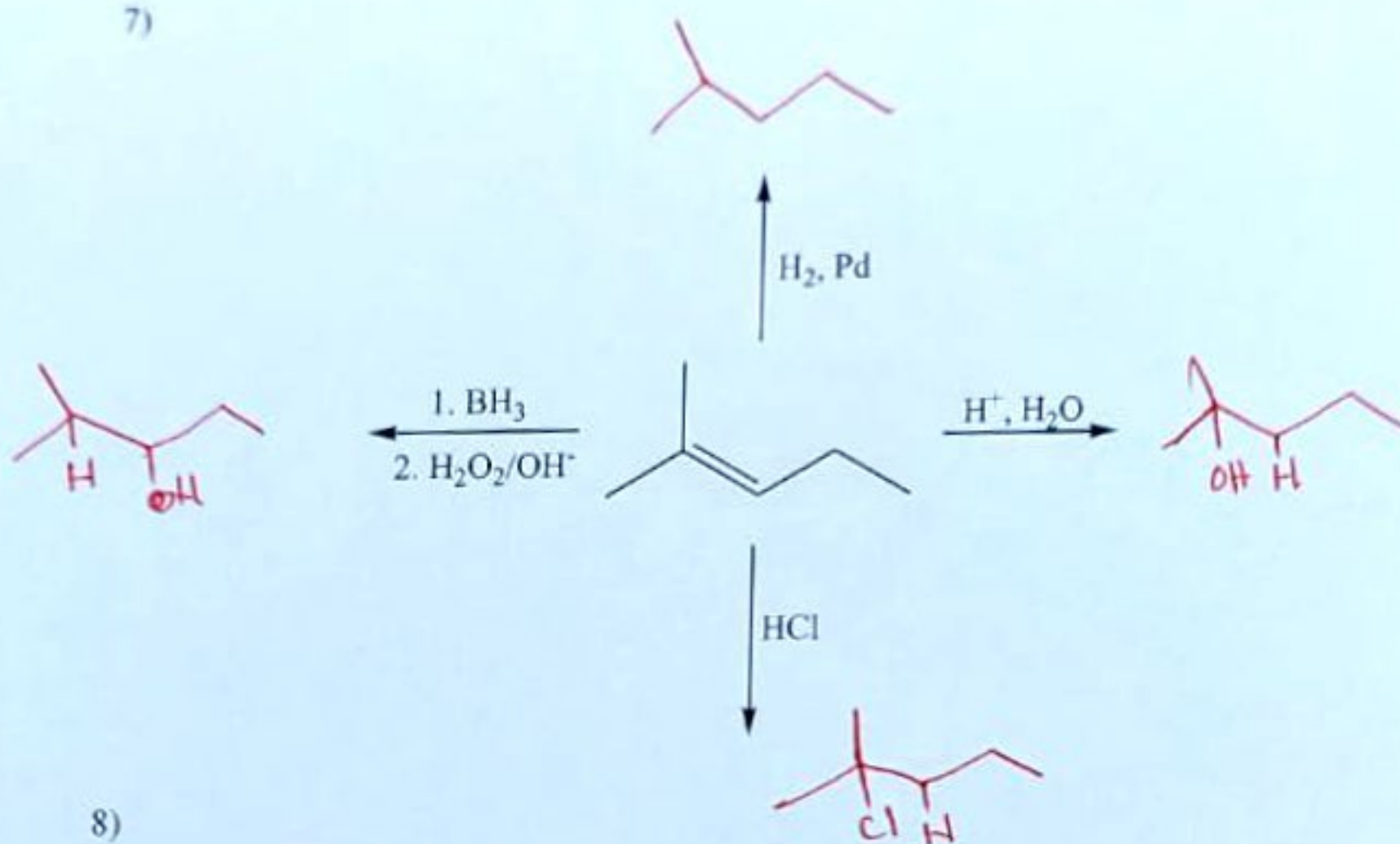
least stable

④

Q4. Draw structures that meet the following descriptions:

(a) Four isomers with the formula C_7H_{16} (b) Three isomers with the formula $C_4H_{10}O$ 

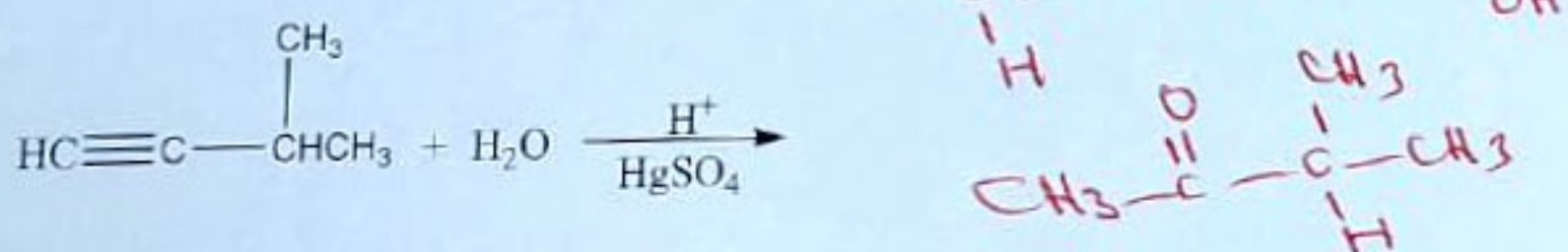
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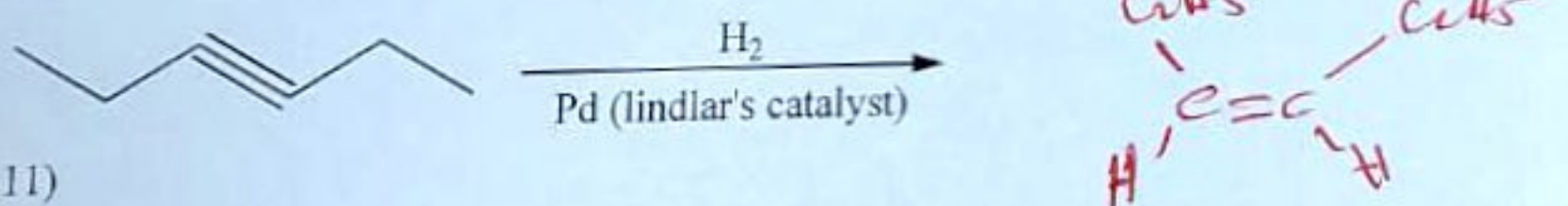
8)



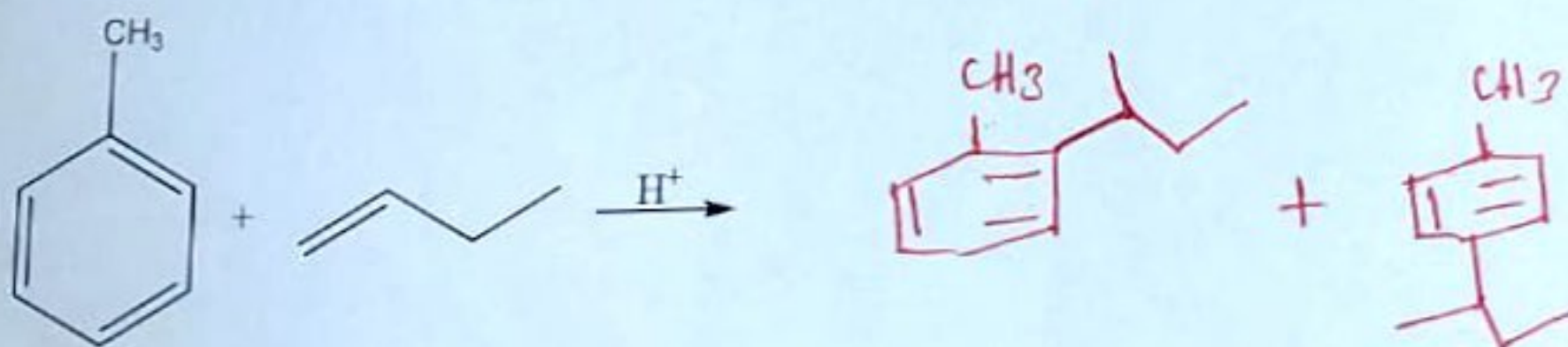
9)



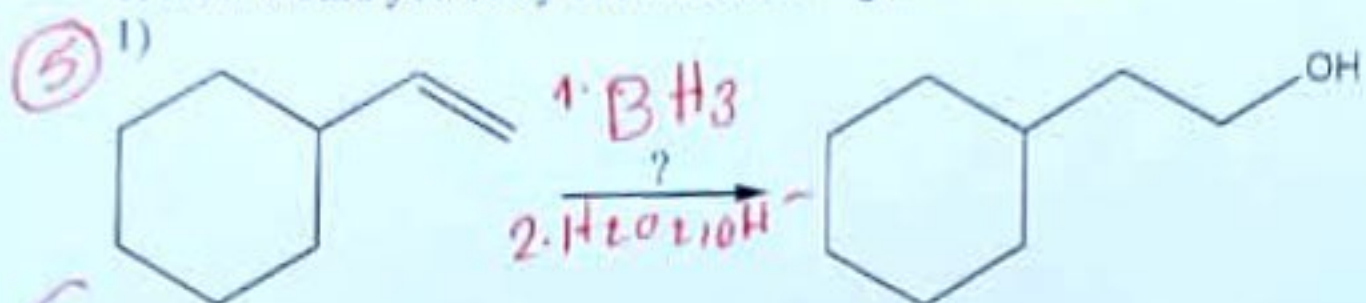
10)



11)



6. How would you carry out the following conversions?



Propose a mechanism for this reaction.

