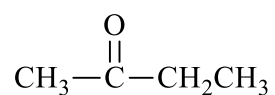
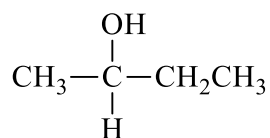


Marks
4

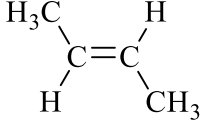
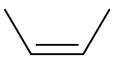
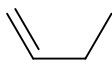
- Butanone is treated first with lithium aluminium hydride, LiAlH_4 , in dry ether and then with aqueous acid to yield the alcohol, **A**.



butanone

**A**

A is treated with concentrated sulfuric acid to give mainly the alkene **B** and two other alkenes **C** and **D**. Alkenes **B** and **C** are diastereomers, **B** and **D** (and **C** and **D**) are constitutional isomers. Give the structures for **C** and **D** and give systematic names for **B**, **C** and **D**.

B 	C 	D 
Name: (E)-2-butene	Name: (Z)-2-butene	Name: 1-butene