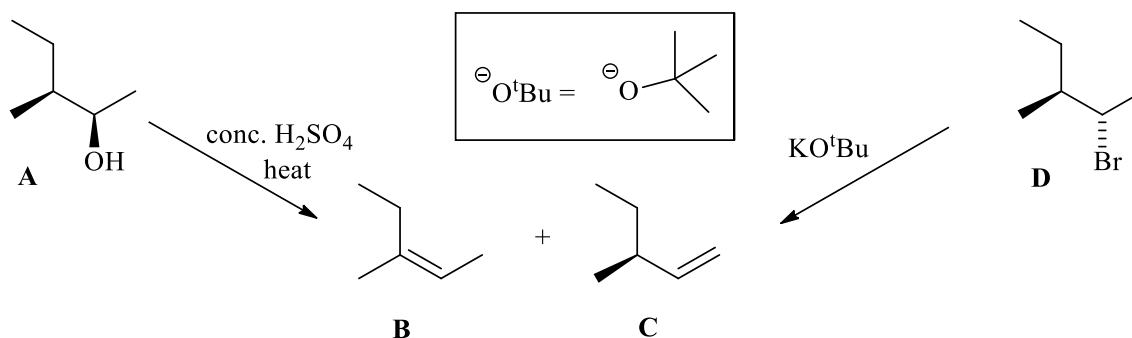


Marks
7

- The elimination of H₂O from alcohol **A** can form the isomeric alkenes **B** and **C**. Elimination of HBr from the alkyl halide **D** can generate the same two alkenes.



Assign the absolute configuration of alcohol **A**. Show your working.

Name compound **B** fully.

A diastereoisomer of **B** is also formed in these reactions. Draw the enantiomer of **A** and the diastereoisomer of **B**.

enantiomer of A	diastereoisomer of B

Propose a mechanism for the formation of **B** from **A** under the conditions shown. Use curly arrows and draw the structures of any intermediates.

THIS QUESTION CONTINUES ON THE NEXT PAGE.