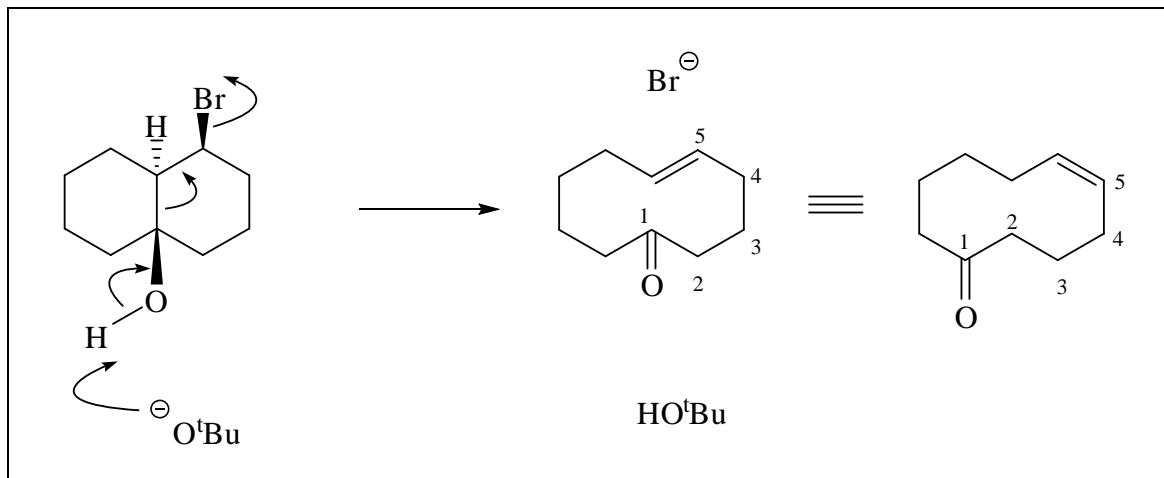


Marks
3

- Add curly arrows to complete the mechanism of the unusual E2 reaction shown below, the Grob Fragmentation. (Note that KO^tBu is potassium *tert*-butoxide, a strong base.)



Explain briefly why the relative stereochemistry of the OH and Br groups in the starting material is important in this reaction.

The groups must have an antiperiplanar alignment in order that the orbitals overlap correctly to form the new bonds.