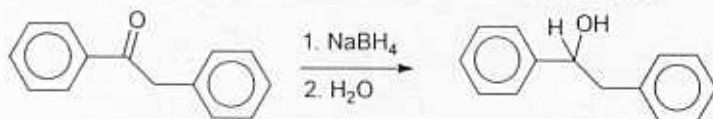
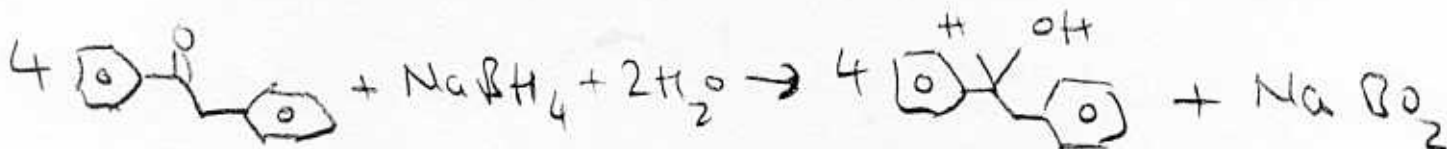


Shown below is a ketone that can be reduced with sodium borohydride in exactly the same fashion as the reduction we carried out in lab:



1. Show a balanced equation for this reaction! (5 pts)



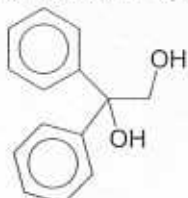
2. Show all stereoisomers for the product shown above and state their relationships! (enantiomers, diastereomers,...) (2 pts)



enantiomers

4. Shown below is an isomer of the compound we prepared last time.

a) Name it! (4 pts)



meso-1,1-diphenylethane diol

b) How many chiral centers (asymmetric carbons) does this compound possess? (2 pts)

0

5. You saw hydrogen gas evolving during last week's experiment. Where did the hydrogen come from? (2 pts)

