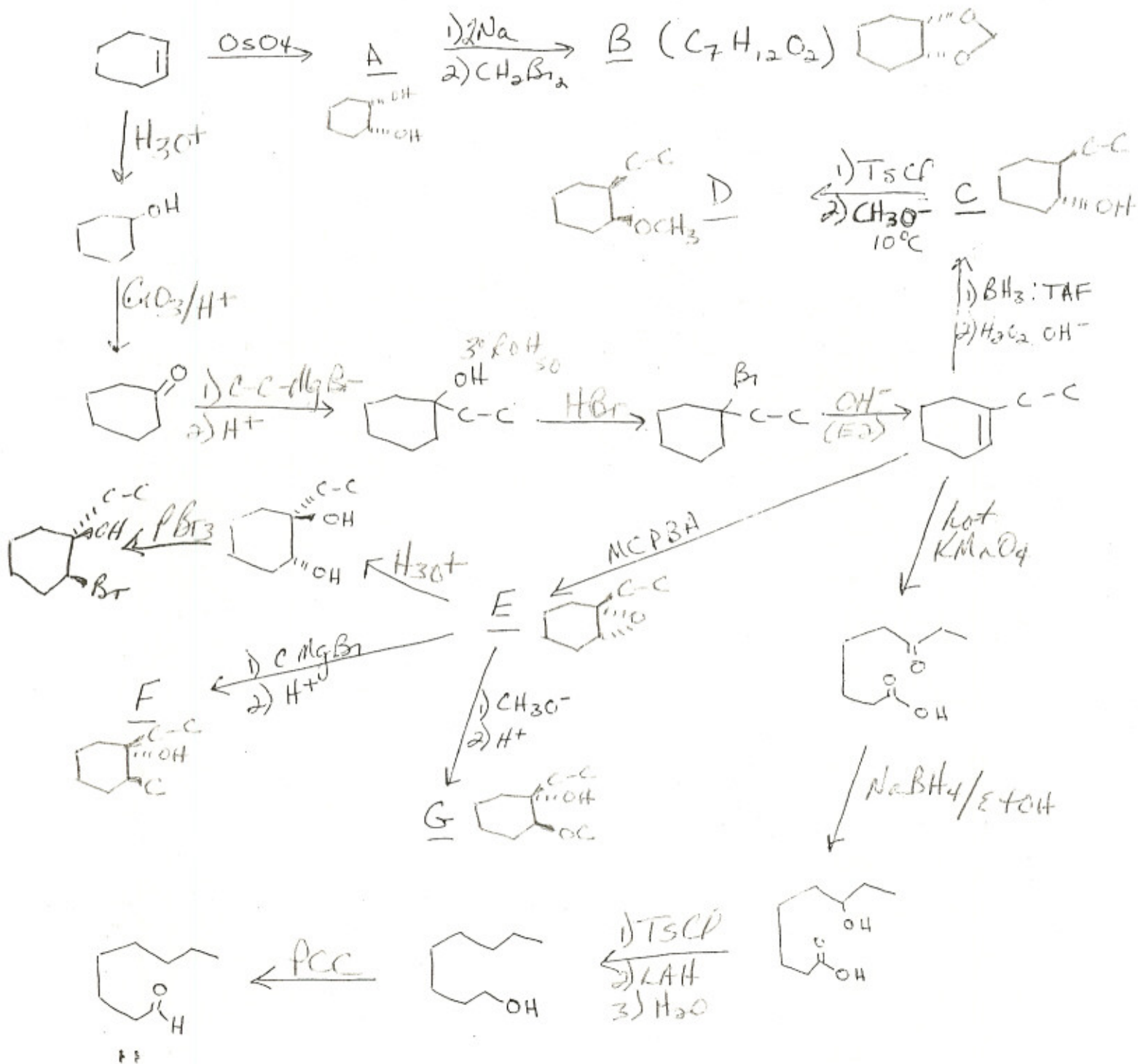


1. Complete the following reaction wheel providing structures or reagents where needed. Show stereochemistry where necessary.



2. Na metal test \Rightarrow look for formation of gas
- tests for alcohols

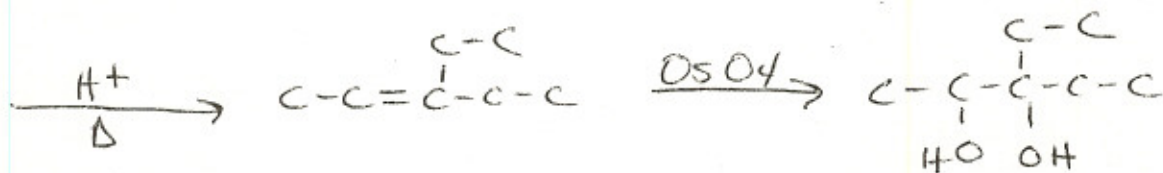
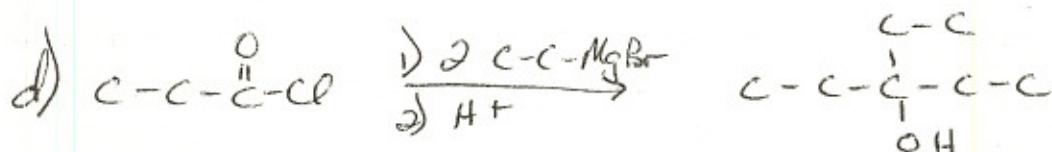
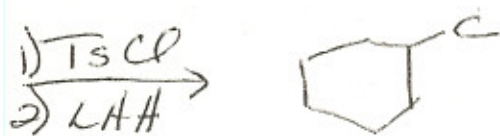
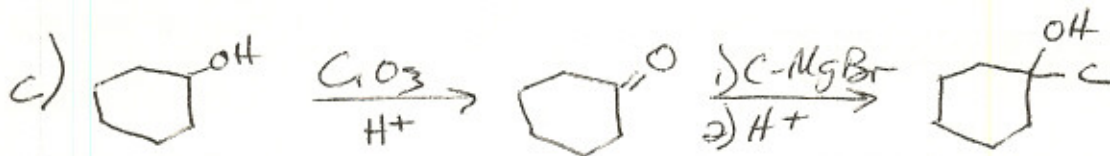
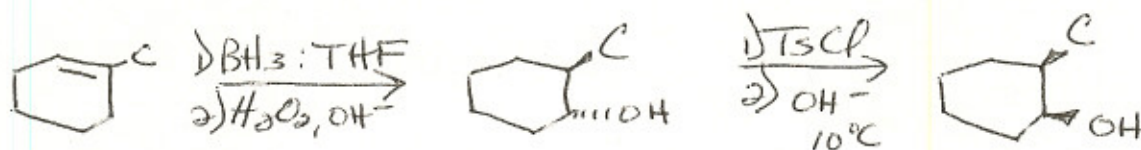
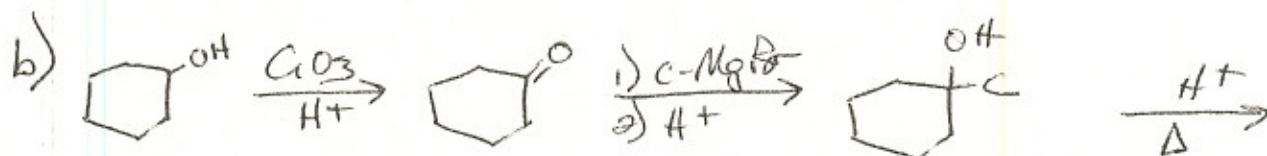
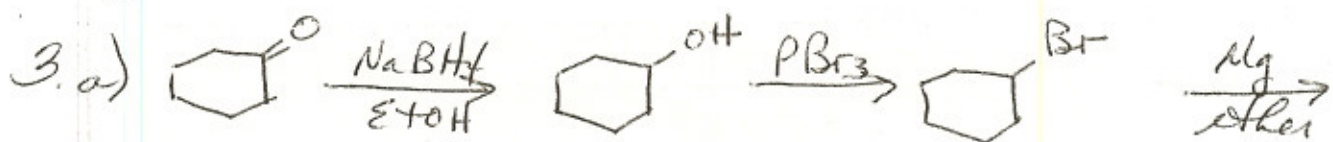
Br₂/CCl₄ \Rightarrow look for color change
orange \rightarrow colorless
- tests for C=C / C \equiv C

Jones Reagent \Rightarrow look for color change
orange \rightarrow blue-green
- tests for any functional group that can be oxidized

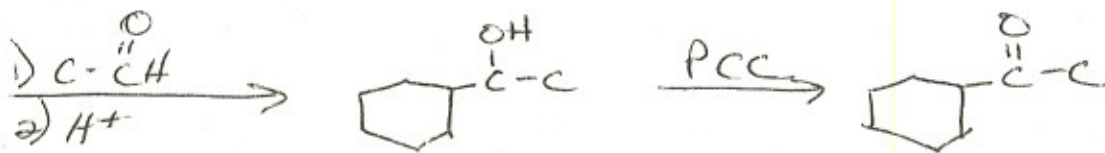
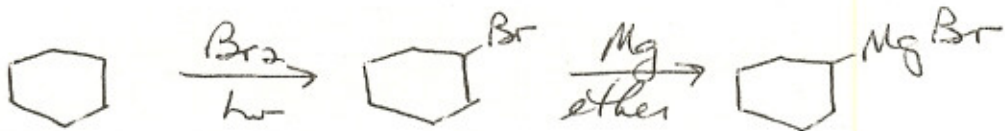
Lucas Reagent \Rightarrow look for formation of 2nd layer
- tests for any compd that can form a stable C^+

Results:

<u>compd</u>	<u>Na metal</u>	<u>Br₂/CCl₄</u>	<u>Jones</u>	<u>Lucas</u>
A	+	-	-	+
B	+	-	+	-
C	+	-	+	+
D	+	+	+	+
E	+	+	+	-
F	-	+	-	-



3. e)



f)

