Exercise 99 - Hydride reductions

What is the product of the following reactions? Watch out for stereochemical implications.

$$\begin{array}{c}
O \\
NaBH_4, CH_3OH
\end{array}$$

Fill in the missing reactant or reagent in the following reactions.

Propose multi-step syntheses of the following, starting with a Diels-Alder reaction.

$$\rightarrow$$
 H_3CO
 CH_2OH
 H_3CO
 CH_2OH