

**In-Class Exercise:  
Choosing Between Multiple Synthetic Routes**

- Show how either *syn*- or *anti*-dihydroxylation could be used to make the molecule below from alkene starting materials.
- If the only molecules we had to start with were alkanes, how might we use them to make the alkenes in part (a)?
- Given your answer to (b), which synthetic route do you like better?

