

## Chem 345 – Organic Reactions

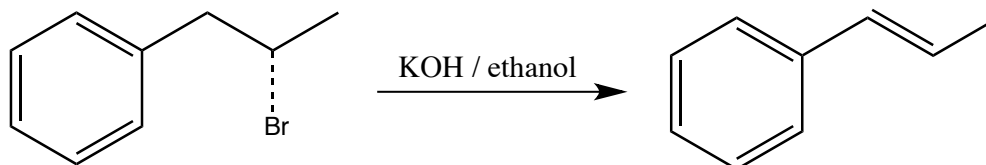
### Chapter 17

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<http://www.chem.wisc.edu/areas/clc> (Resource page)

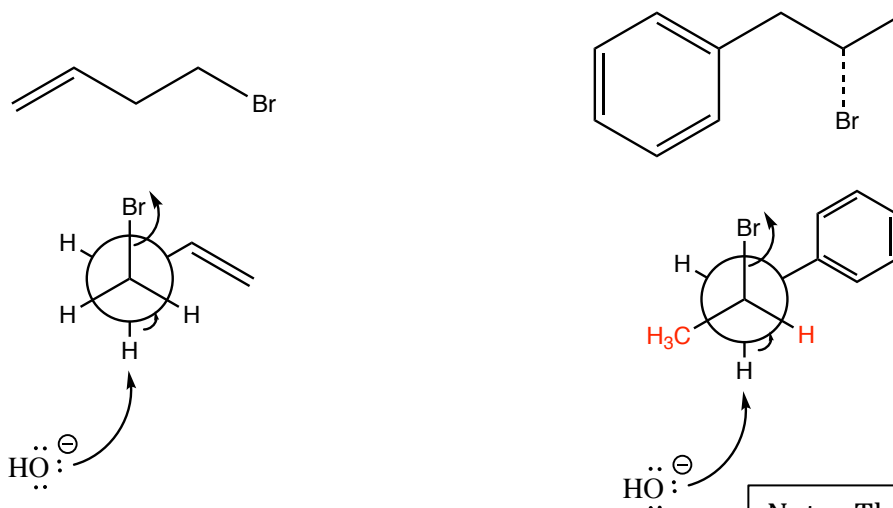
#### Elimination reactions Involving Allylic and Benzylic Compounds

Reactions:



In each of the above cases the hydrogen atoms on the allylic or benzylic systems have an enhanced acidity. This is because the resulting conjugate base is resonance stabilized. Due to this fact elimination reactions (E2) occur with greater ease than the competing substitution reactions (S<sub>N</sub>2).

Like all E2 elimination reactions there's an anti-coplanar arrangement of the base and β-hydrogen atom.



Note: The groups in red color can be exchanged because the carbon atom to which they're attached is chiral.