Week 3 Worksheet

1. Predict the elimination product(s). If more than one is formed, circle the more favorable product.
   a. 

   ![Structure 1]

   b. 

   ![Structure 2]

2. Fill in the reagent and state the mechanism(s) for the reaction.

   ![Reaction 1]
3. Predict the products of the following reactions.

\[
\text{CH}_\text{Cl} \xrightarrow{\text{DBU}} \text{products}
\]

4. Provide a curved arrow mechanism for the following reaction. Show all steps.

\[
\text{OH} \xrightarrow{\text{KOTBu}} \text{products}
\]
5. Predict the products of the following reactions.

\[
\begin{align*}
\text{Br} & \quad \text{H}_2\text{O} \\
{\cdot OH} & \\
\end{align*}
\]

What determines the mechanism of elimination?

6. Give the IUPAC name of the following two alcohols: