Week 4 Worksheet

1. Predict mechanisms to account for these products.
2.

\[ \begin{array}{c}
\text{Br} & \text{NaNH}_2 & \Rightarrow \\
\text{Br} & \Rightarrow & \text{C=C} \\
\text{2 equiv.} & & \\
\end{array} \]

a. Identify the alpha and beta carbons

b. Are your beta hydrogens antiperiplanar to your leaving groups? If not, how can you make that happen?

c. Draw a mechanism of the reaction and your final product.

3. Label each molecule in order of increasing boiling point (1 being lowest and 3 being highest).

\[ \begin{array}{c}
\text{HO} & \text{HO} & \text{HO} \\
\text{Pentane} & \text{Cyclohexane} & \text{Cyclopentane} \\
\end{array} \]