1. [8 pts] For each pair of compounds, circle the one which is the more oxidized. If they are both at the same oxidation level, circle both.

(a) \[
\begin{array}{cc}
\text{S} & \text{SH} \\
\text{S} & \text{SH}
\end{array}
\]  (b) \[
\begin{array}{cc}
\text{OH} & \text{OH} \\
\text{C}_{\text{hex}} & \text{OH}
\end{array}
\]

2. [12 pts] For each of the following, supply a structure for the major organic product(s); if no reaction occurs, write N.R. If an ortho-para mixture is expected, show both. Be sure to indicate stereochemistry appropriately when necessary.

(a) 
\[
\text{C}_{\text{hex}} \text{CHBr} \xrightarrow{\text{NaOH} \quad \text{H}_2\text{O}} \text{C}_{\text{hex}} \text{CH}_2\text{OH}
\]

(b) 
\[
\text{C}_{\text{hex}} \text{CH}_2\text{OH} \xrightarrow{\text{NaH}} \text{C}_{\text{hex}}\text{C}_2\text{O}^- \text{Na}^+
\]

(c) 
\[
\text{C}_{\text{hex}} \text{CHO} \xrightarrow{\text{NaBH}_4 \quad \text{CH}_3\text{OH}} \text{C}_{\text{hex}}\text{CH}_2\text{OH}
\]