1) Predict the product of the following reaction (2 points).

\[
\text{O} \quad \text{MeNH}_2 \quad \text{H}_2\text{SO}_4
\]

2) Show the reagent(s) necessary to carry out the following reaction (2 points).

\[
\text{H} \quad \text{OH}
\]

3) Show the reagents necessary to carry out the following synthesis (6 points).

\[
\text{OH}
\]