Quiz 3. Monday Morning

Name:
Recitation Instructor:

You have 20 minutes to complete the following quiz.

1) Show a mechanism of the following transformation (5 points)

\[
\begin{align*}
\text{Br} & \quad \text{H-Br} \\
\end{align*}
\]

2) Show the reagents necessary to carry out the following reaction (5 points)

\[
\begin{align*}
\text{Br} \quad \text{OH} & \quad \text{Br} \quad \text{Cl} \\
\end{align*}
\]

3) Show the product of the following reaction (5 points)

\[
\begin{align*}
\text{Br} \quad \text{H} \quad \text{Br} & \quad \text{Br} \\
\end{align*}
\]

4) Explain the \textit{diastereoselectivity} of the following reaction (5 points).

\[
\begin{align*}
\text{Br} \quad \text{Br} & \quad \text{racemic} \\
\end{align*}
\]