Quiz 3. Thursday Morning

Name:
Recitation Instructor:

You have 20 minutes to complete the following quiz.

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

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

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

\[
\begin{align*}
\text{Br} & \quad \text{t-BuO}^- \\
\text{Br} & \quad \text{Br}
\end{align*}
\]

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

\[
\begin{align*}
\text{Br} & \quad \text{t-BuO}^- \\
\text{Br} & \quad \text{Br}
\end{align*}
\]

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

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