Fall 2006 Homework #4

due: 10 a.m. Mon. Oct 2nd

1. (10 points) Label each pair as "diastereomers", "enantiomers", or "same".

2. (10 points) Which product will be formed? Why?

Br
$$CI \longrightarrow OH$$
 $OH \longrightarrow OH$ O

3. (10 points) Draw an arrow-pushing mechanism for the following transformation.

$$\begin{array}{c|c}
O & OTs & \underline{CH_3OH} \\
\hline
K_2CO_3 & \underline{CO_3}
\end{array}$$