Week 5 Worksheet

1. When each halohydrin is treated with NaH, a product of molecular formula C₄H₈O is formed. Draw the structure of the product and indicate its stereochemistry.

   a. 
   
   b. 
   
   c. 

(Smith 6th Ed., Ch. 9, #61)

2. Prepare each compound from cyclopentanol. More than one step may be needed.
3. What alkene can be used to prepare each alkyl halide or dihalide as the exclusive or major product of an addition reaction?
(Smith 6th Ed., Ch. 10, #47)