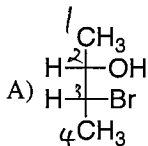


(20 Points)

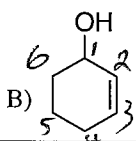
PID:

Section No

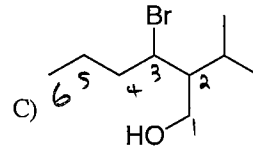
1. (6 Points) Give the correct names for each of the following compounds.



(2S,3R)-3-bromo-2-butanol



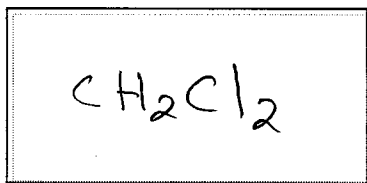
2-cyclohexenol



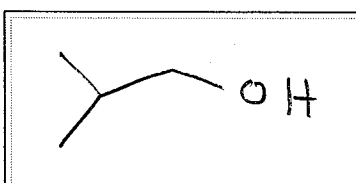
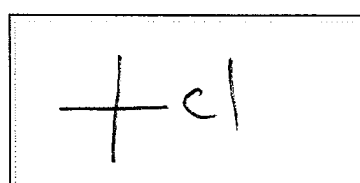
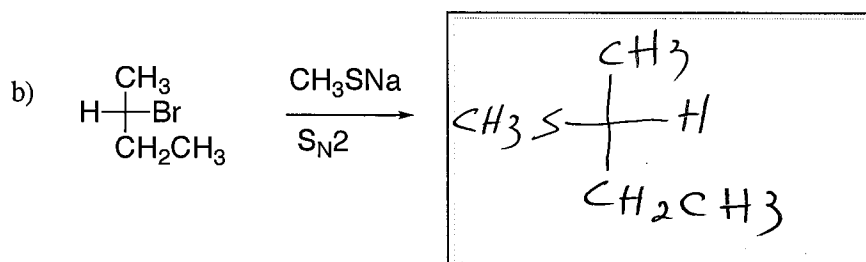
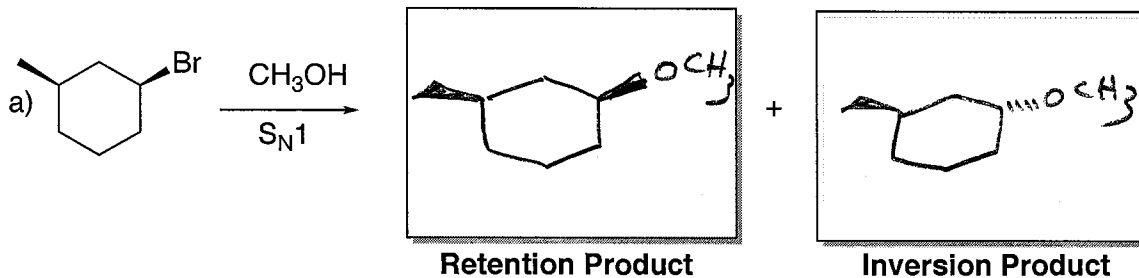
3-bromo-2-isopropyl-1-hexanol

2. (6 Points) provide the structure for the following common names.

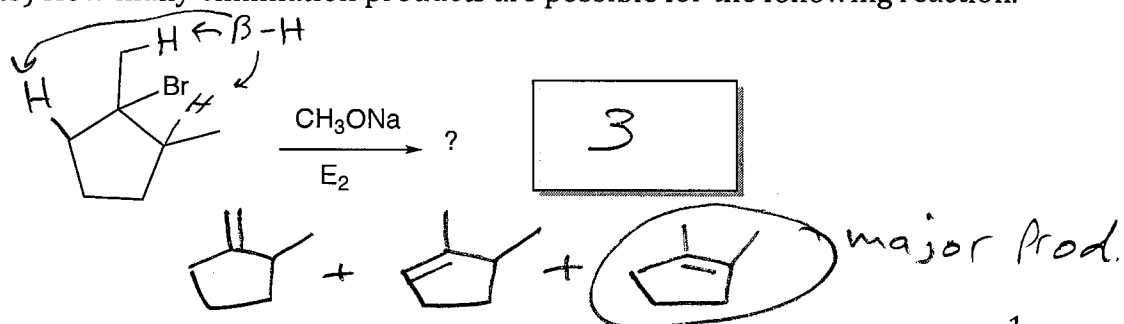
a) Methylene chloride



b) isobutyl alcohol

c) *tert*-Butyl chloride3. (6 Points, 2 Pts. Each box) Complete the following $\text{S}_{\text{N}}1$, or $\text{S}_{\text{N}}2$ reactions by filling the boxes with the appropriate products. Show stereochemistry.

4. (2 Points) How many elimination products are possible for the following reaction.



P4

4. (6 Points, 2 each) Complete the following chemical transformation by filling the boxes with the appropriate reagents, or products. For products, only provide the organic ones.

