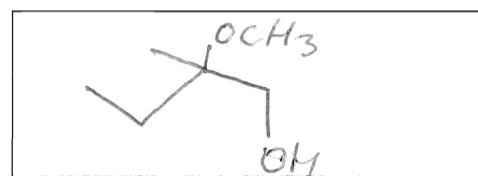
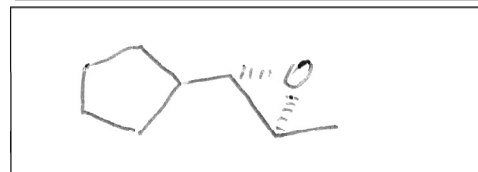
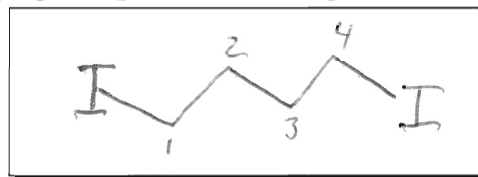
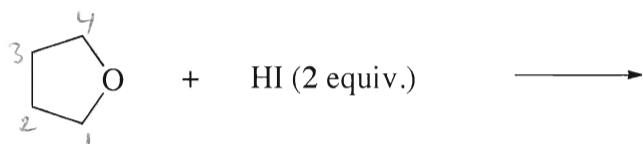
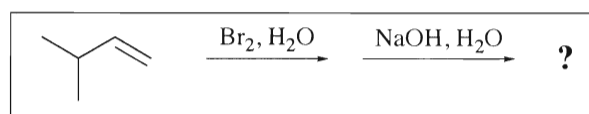


Key

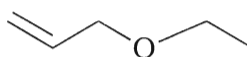
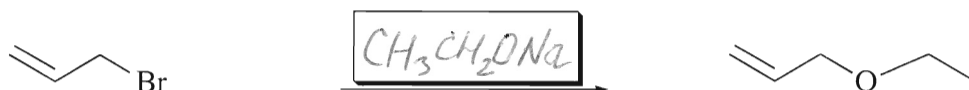
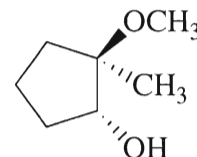
1. (9) Complete the following reactions by drawing the appropriate **products** in the provided boxes:2. (4) Circle the **name** of the major organic product obtained from the following sequence of reactions:

2-bromo-3-methyl-1-butanol

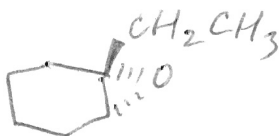
1-butene oxide

2-isopropylloxirane

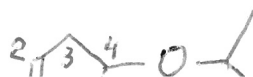
trans-2-ethyl-3-methyloxirane

3. (6) Show the **reagents** (in boxes) that can be used to convert the reactant to the indicated product:4. (4) Give the **correct structure** for each of the following compounds (2 pts each):

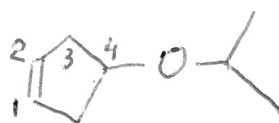
1-ethyl-1,2-epoxycyclohexane:



4-isopropoxy-1-cyclopentene:



4-isopropoxy-1-cyclopentene:

5. (2) Which one of the following compounds has the **highest solubility in water**?

1-buten-3-yne

butane

1-chloropropane

cyclohexene

1,2-dimethoxyethane

iodomethane