HOMEWORK ASSIGNMENT #8 ORGANIC CHEMISTRY I (25 pts)

**Due 9 November Wednesday 2016**

your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8.1. Practical Reaction Thinking (5 pts)

Which condition will increase the rate of the reaction given: (If both, circle **Both. I**f neither circle **None)**

HBr + t-butanol Using polar protic solvent Using non-protic solvent Both None

HBr + t-butanol Increasing HBr concentration Increasing H2SO4 concentration Both None

HBr + 1-butanol Increasing HBr concentration Increasing H2SO4 concentration Both None

HBr + 2-butanol Increasing 2-butanol concentration Using polar, protic solvent Both None

HBr + 1-butanol Running neat Using a non-protic solvent Both None

8.2 On the Road Again

Starting from alcohols and/or ketones/aldehyde compounds with <4 Carbons :



1. Suggest a route to : 5 pts



1. Suggest a route to: 3 pts



1. Suggest a route to: 6 pts

**10.1. Name or draw these alkenes. Use IUPAC rules unless otherwise indicated**





**(if E, Z forms present, indicate which) 6 pts**





**Common**

**IUPAC**

