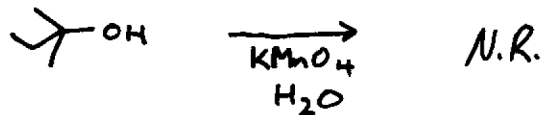
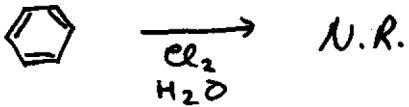
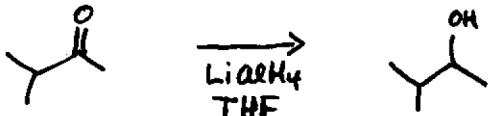
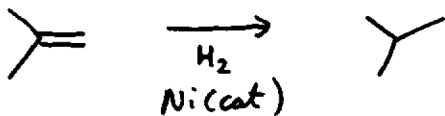
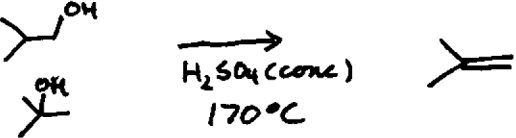
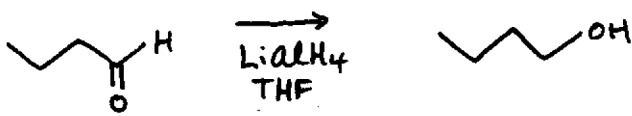
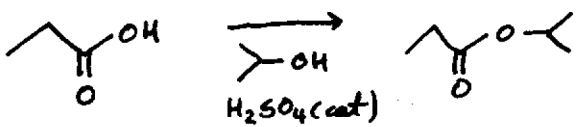
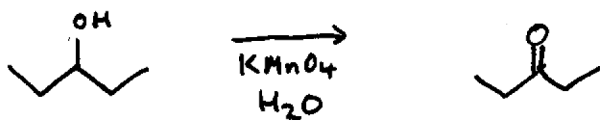
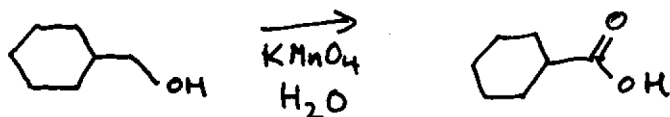
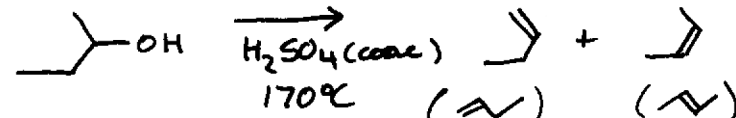
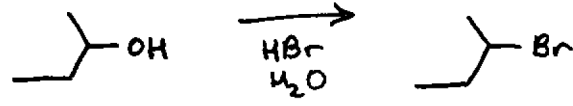
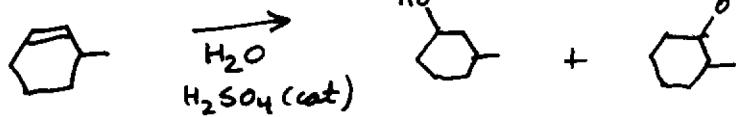

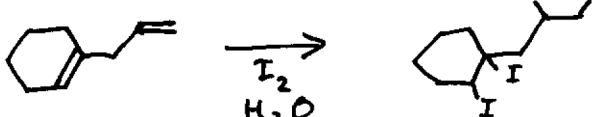
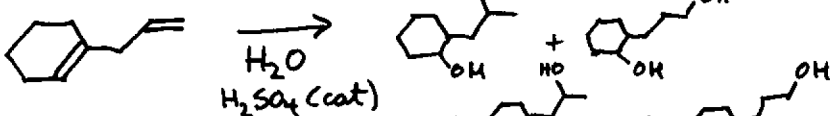
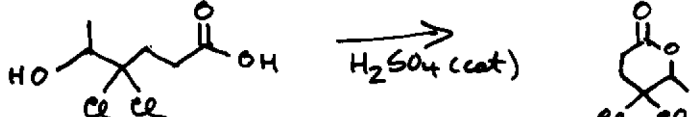
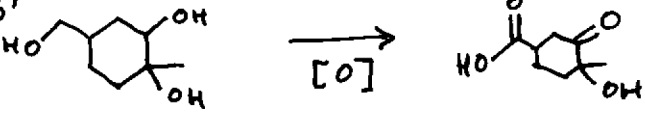
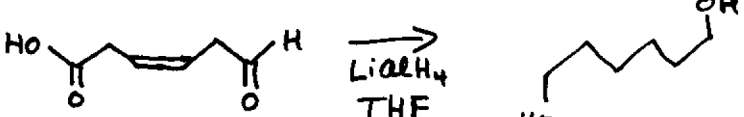
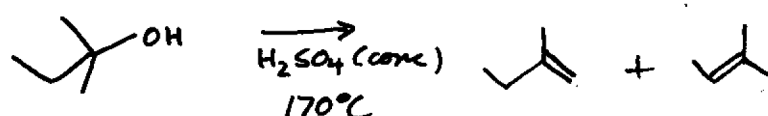


Name: \_\_\_\_\_

Organic Chemistry Reaction Assignment

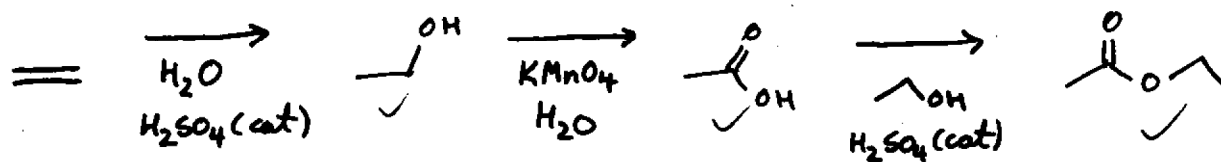
1. For each of the following, complete the reaction by filling in the major organic product, or reaction conditions, or reactant. After each reaction describe the type of reaction using one or two words (i.e. addition, hydration)

Reaction		Description
a)		3° alcohols do not oxidize, no alcohol hydrogen
b)		addition to aromatic compounds requires stronger conditions
c)		reduction of ketone to 2° alcohol
d)		addition - hydrogenation
e)		elimination or dehydration of an alcohol
f)		reduction of aldehyde to primary alcohol
g)		esterification or condensation or ester dehydration synthesis
h)		oxidation of secondary alcohol to ketone

<p>i)</p> 	<p>oxidation of primary alcohol to carboxylic acid (aldehyde intermediate not shown)</p>
<p>j)</p> 	<p>elimination or dehydration of an alcohol</p>
<p>k)</p> 	<p>substitution reaction</p>
<p>l)</p> 	<p>addition - hydration</p>
<p>m)</p> 	<p>addition - hydrohalogenation</p>
<p>n)</p> 	<p>addition - halogenation</p>
<p>o)</p> 	<p>addition - hydration</p>
<p>p)</p> 	<p>esterification or condensation or ester dehydration synthesis</p>
<p>q)</p> 	<p>oxidation of 1°, 2° and 3° alcohols</p>
<p>r)</p> 	<p>reduction of carboxylic acid aldehyde and alkene</p>
<p>s)</p> 	<p>elimination or dehydration of an alcohol</p>

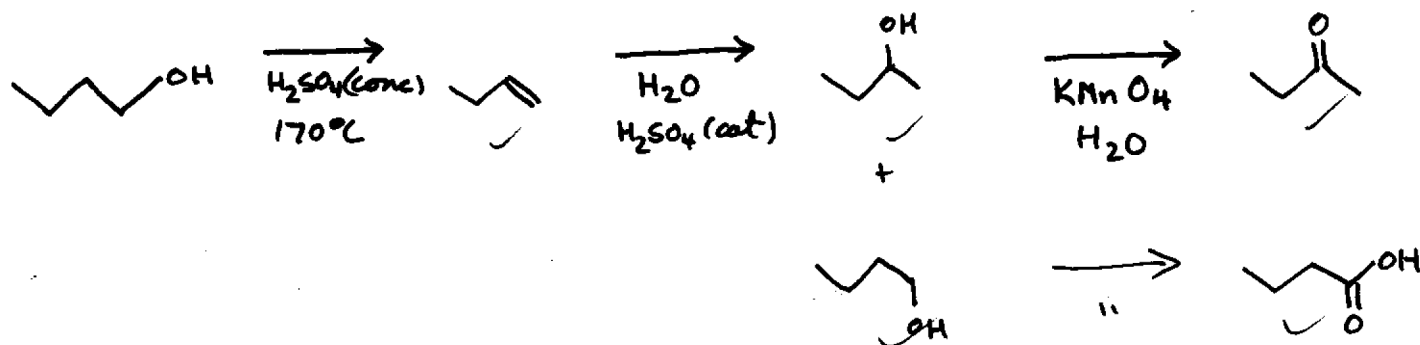
2. Complete each of the following reaction sequences as completely as possible.

a)



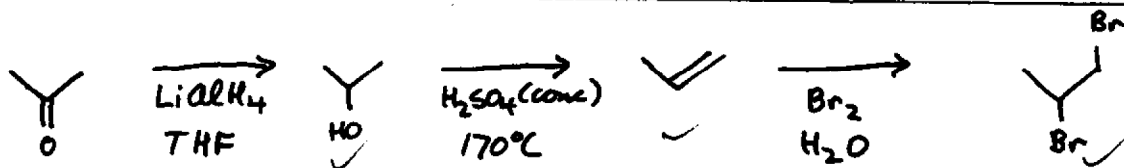
3

b)



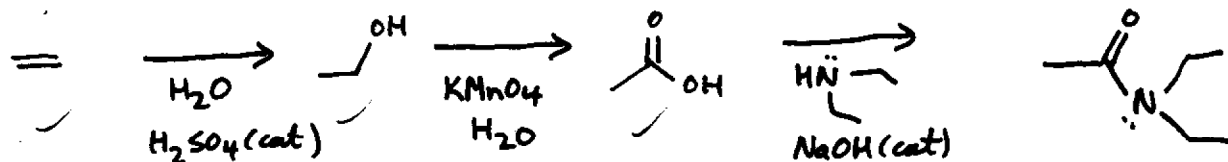
5

c)



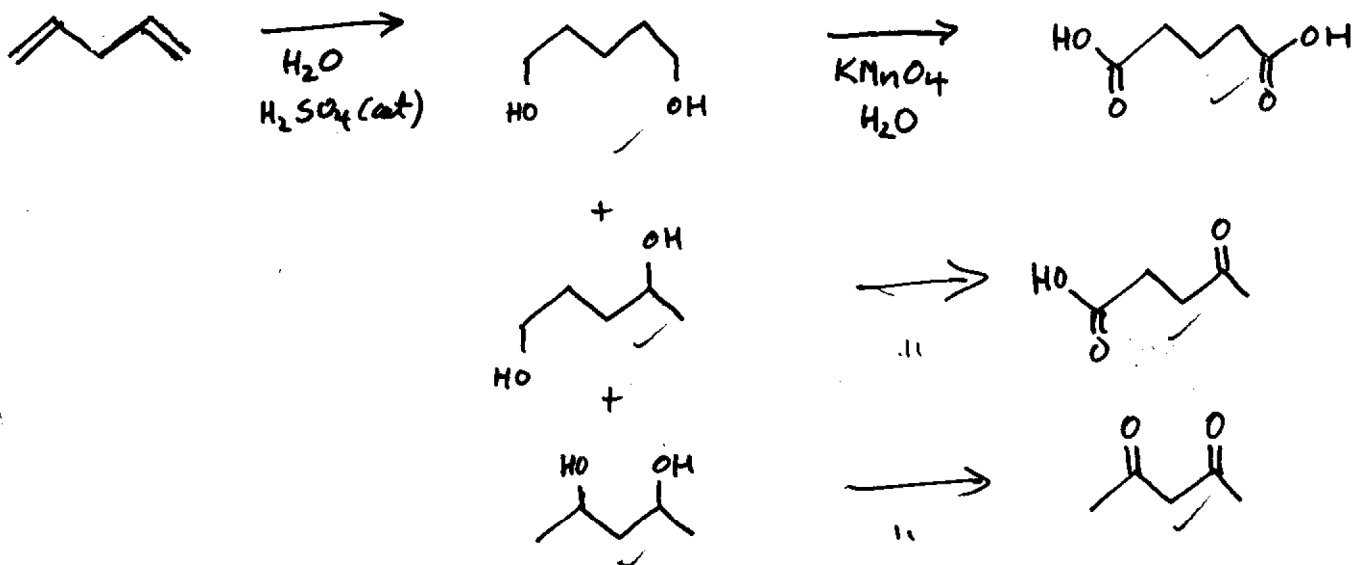
3

d)



3

e)



6