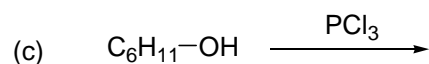
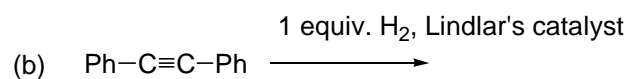
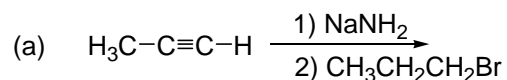


Name _____

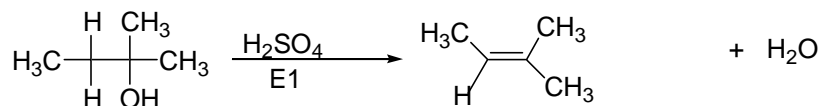
If you do not want your graded quiz placed in the box outside my office, then please tick here _____

Answer all the questions.

1) Give the products formed in the following reactions: (7pts)



2) Draw curly arrows to show the mechanism of the following **E1** reaction. (8pts)

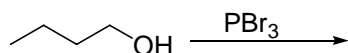


3) Give an applicable name that describes the reaction in Q2. (2pts)

4) Is the alkene product *E*, *Z* or *neither*? (2pts)

5) Name the starting alcohol in Q2 in IUPAC terms. (3pts)

6) Give the product in the following transformation. (4pts)



7) Could we use HBr to give the same transformation? (2pts)

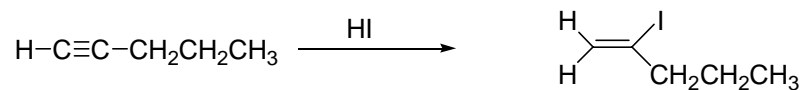
8) Is the above transformation most likely S_N1 or S_N2 ? (2pts)

9) Draw the following IUPAC compounds. (10pts)

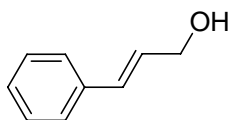
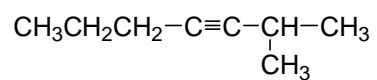
4-fluoroheptan-2-ol

3-methyl-3-cyclopenten-1-ol

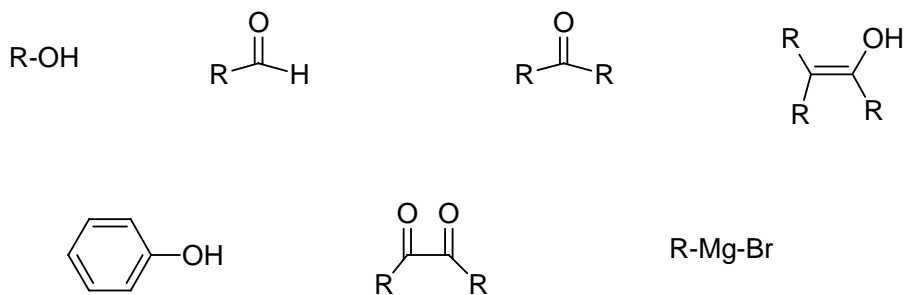
10) The addition of **one equivalent** of HI to the following alkyne gives only one product (regio-isomer). Write the mechanism of this **addition** reaction, and explain why only one product is observed. (10pts)



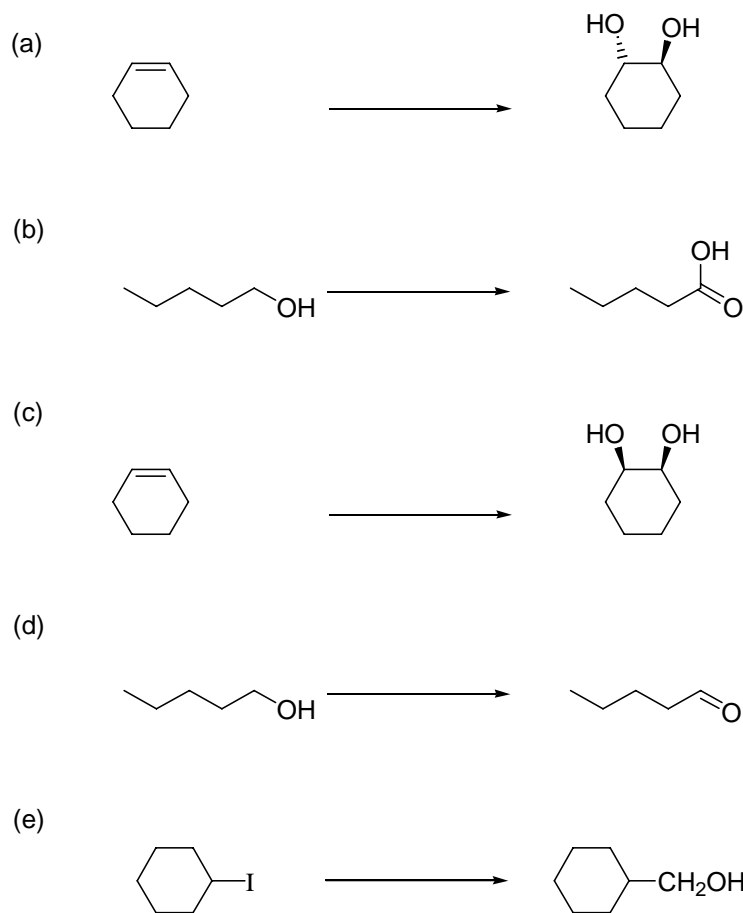
11) For the following alkyne and alcohol, identify the hybridization of **each individual** carbon atom. (12pts)



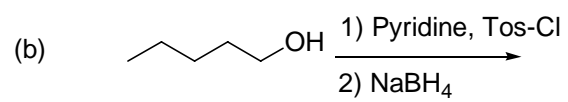
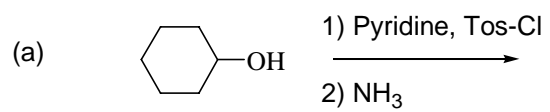
12) Name the class of compound these molecules belong to: (14pts)



13) Give reagents for 4 of the following transformations. (if you do all 5, I just grade the 1st 4) (16pts).



14) Draw the products of the following transformations. (8pts)



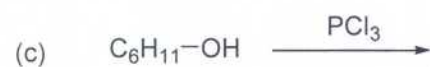
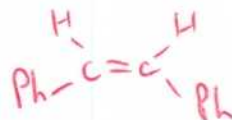
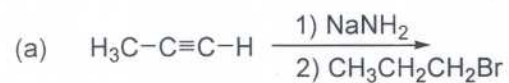
Name

PETE ZAHUTT

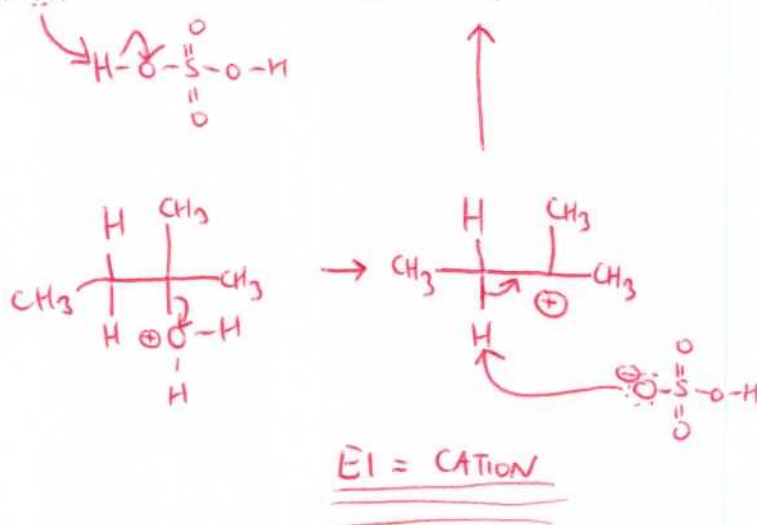
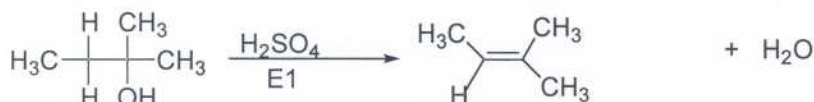
If you do not want your graded quiz placed in the box outside my office, then please tick here _____

Answer all the questions.

1) Give the products formed in the following reactions: (7pts)



2) Draw curly arrows to show the mechanism of the following E1 reaction. (8pts)



3) Give an applicable name that describes the reaction in Q2. (2pts)

ELIMINATION, DEHYDRATION, ACID CATALYZED REACTION

4) Is the alkene product *E*, *Z* or *neither*? (2pts)

Neither

5) Name the starting alcohol in Q2 in IUPAC terms. (3pts)



6) Give the product in the following transformation. (4pts)



7) Could we use HBr to give the same transformation? (2pts)

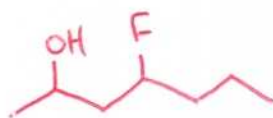
Yes

8) Is the above transformation most likely S_N1 or S_N2? (2pts)

S_N2

9) Draw the following IUPAC compounds. (10pts)

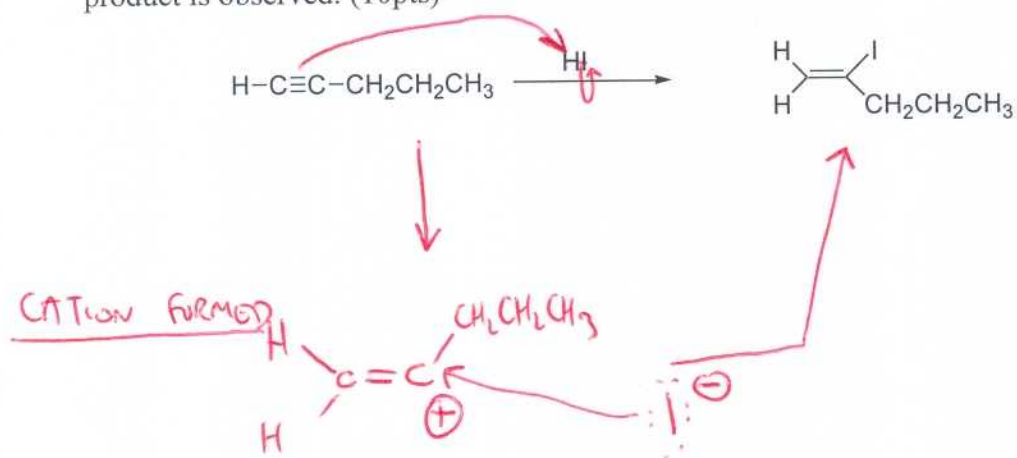
4-fluoroheptan-2-ol



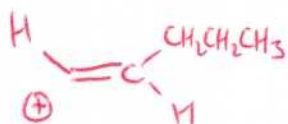
3-methyl-3-cyclopenten-1-ol



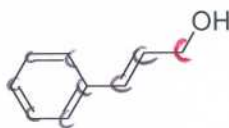
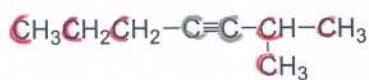
10) The addition of **one equivalent** of HI to the following alkyne gives only one product (regio-isomer). Write the mechanism of this **addition** reaction, and explain why only one product is observed. (10pts)



Not Formed - less alkyl substitution.

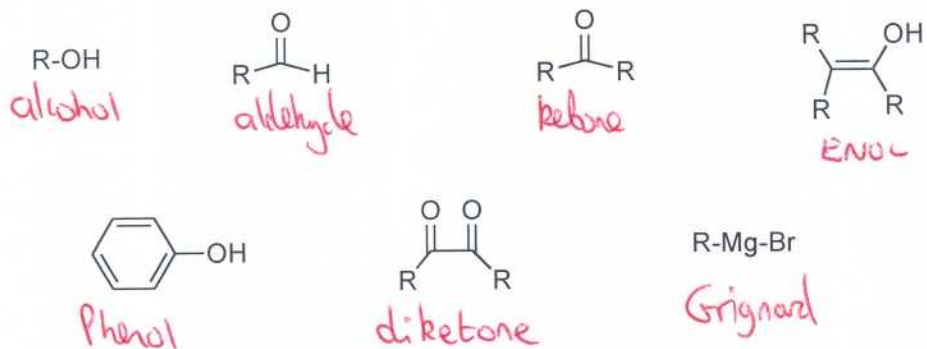


11) For the following alkyne and alcohol, identify the hybridization of **each individual** carbon atom. (12pts)

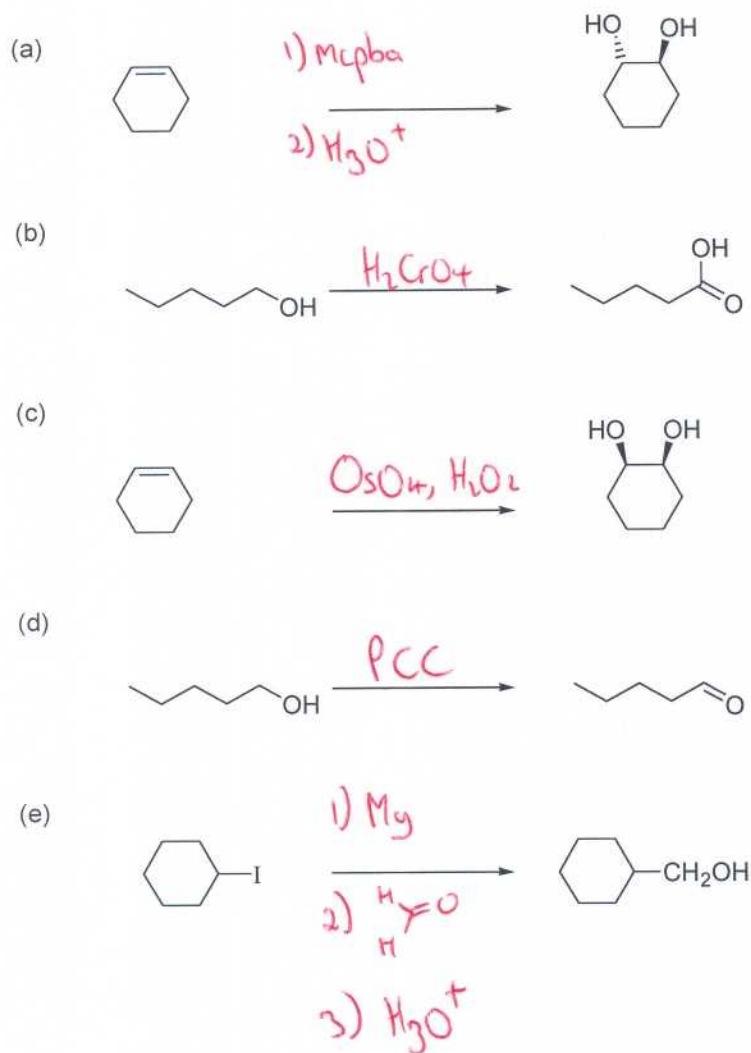


Red = sp^2
 Black = sp^2
 Grey = sp

12) Name the class of compound these molecules belong to: (14pts)



13) Give reagents for 4 of the following transformations. (if you do all 5, I just grade the 1st 4) (16pts).



14) Draw the products of the following transformations. (8pts)

