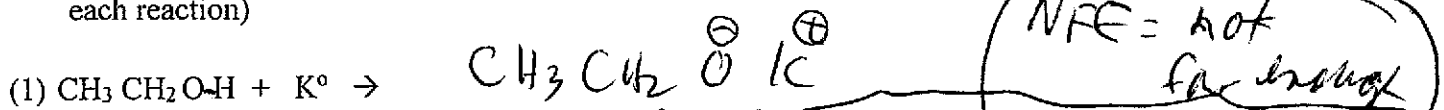


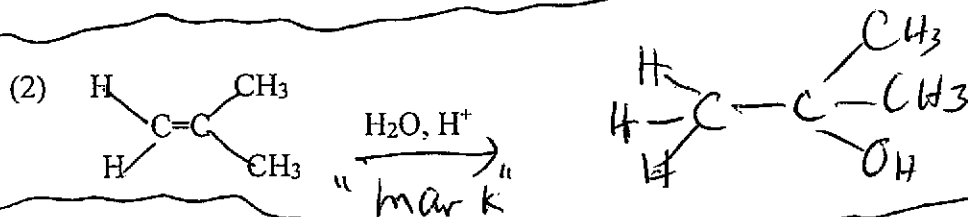
Sign Name Key Print Name \_\_\_\_\_

Please show work on all questions for partial credit even on questions which do not specify. (25 pts)

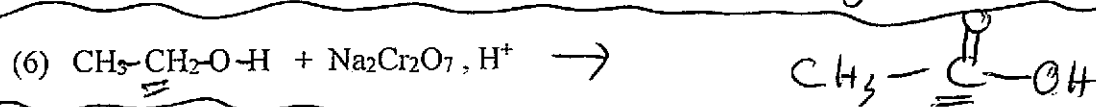
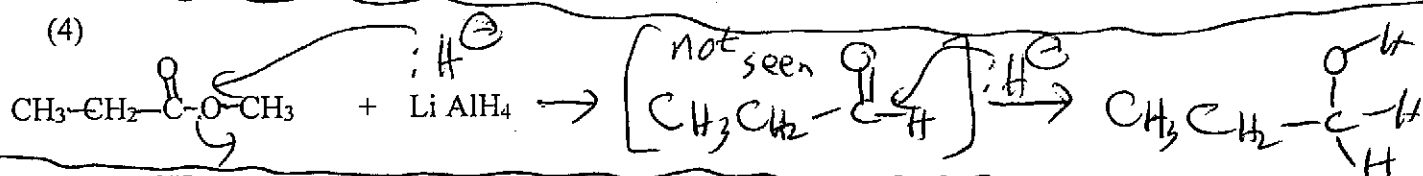
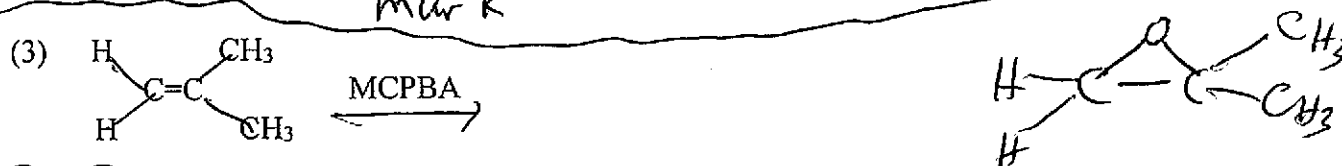
1. Complete the following reactions by giving the organic products. (Choose to do 5 of the following reactions) (Circle the ones you want graded. If you do not choose, I will just grade the first 5.) (5 pts each reaction)



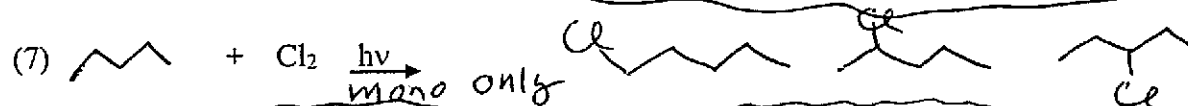
NFE = not far enough  
TF = too far



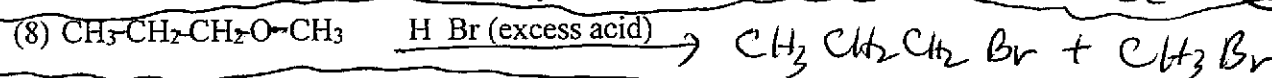
-2 1/2



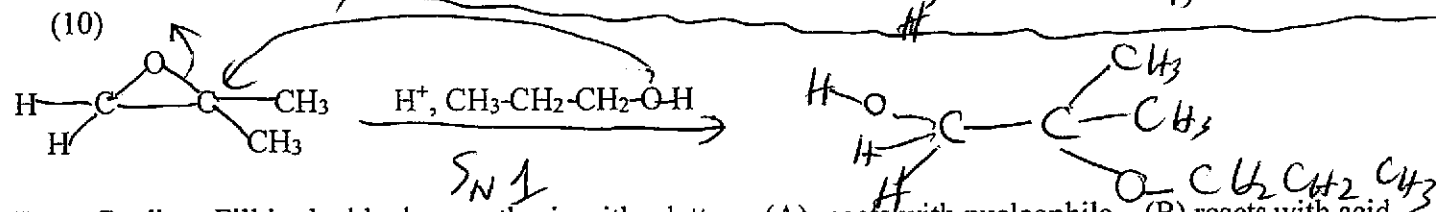
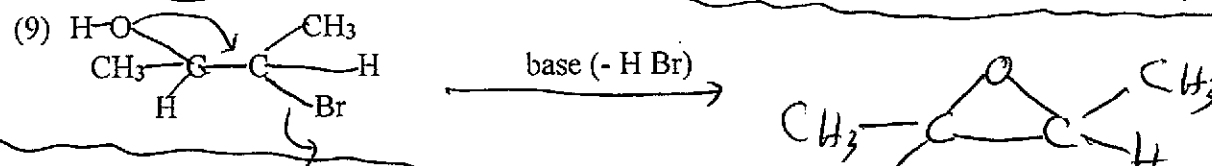
showed 2 no pls  
other off



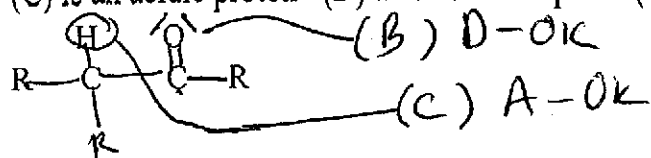
-2 1/2



-2 1/2  
over



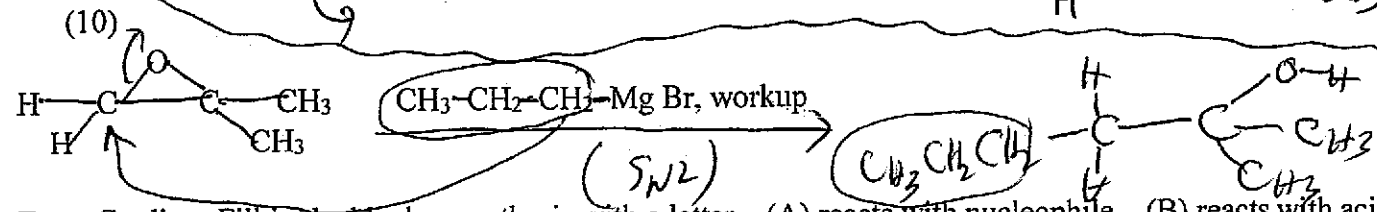
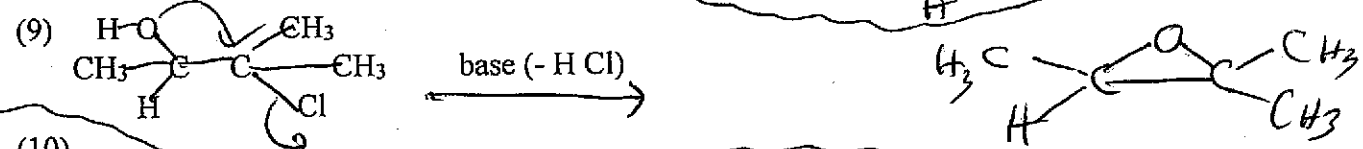
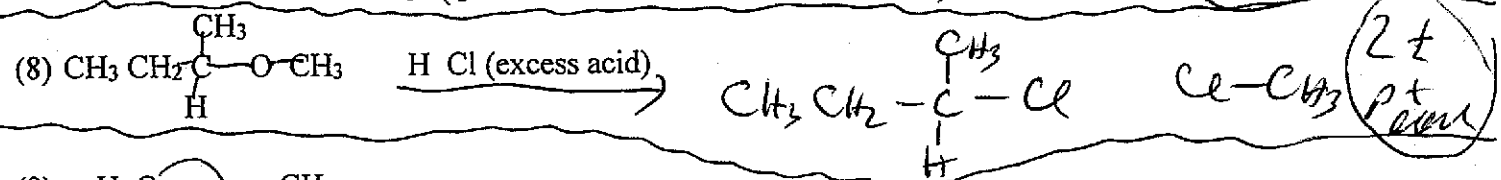
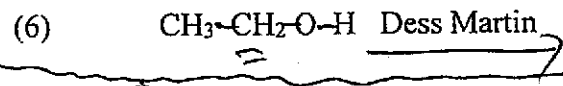
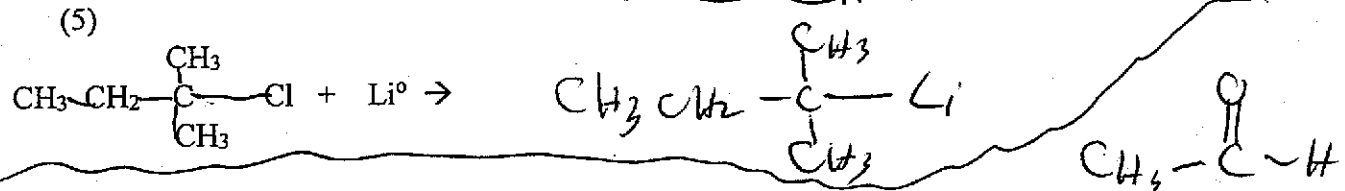
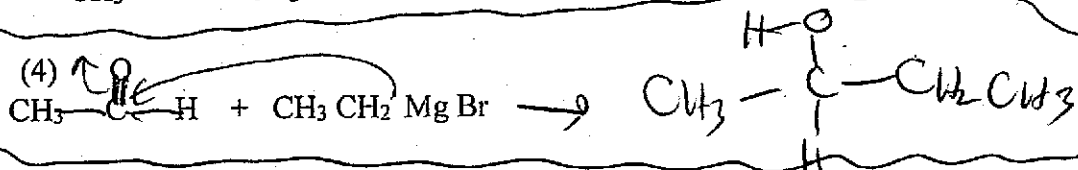
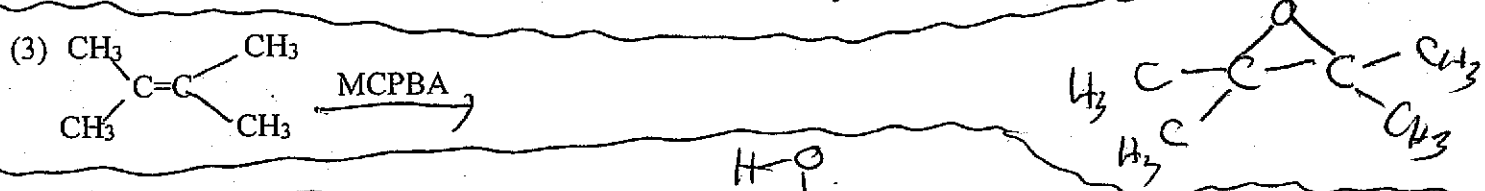
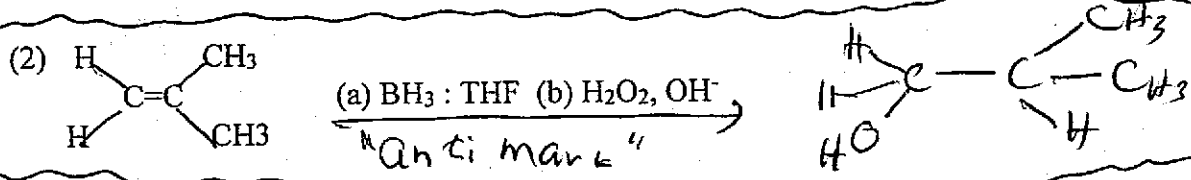
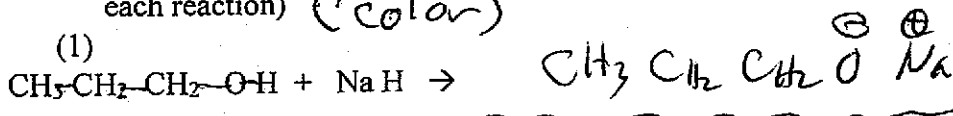
Extra Credit: Fill in the blank parenthesis with a letter. (A) reacts with nucleophile (B) reacts with acid (C) is an acidic proton (D) acts as nucleophile ( $\text{R} \neq \text{H}$ ) (2 pts)



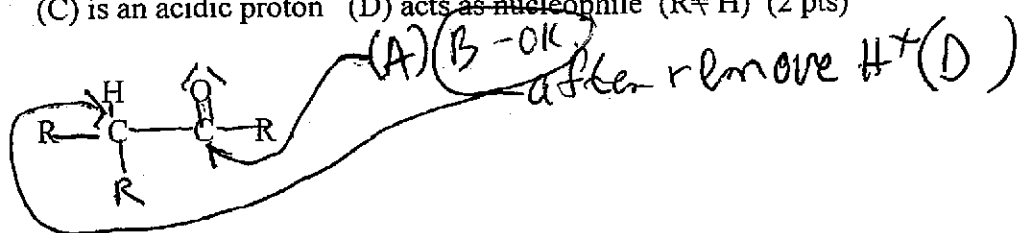
Sign Name Key Print Name NFE = Not far away

Please show work on all questions for partial credit even on questions which do not specify. (25 pts) TE = too far -2+

1. Complete the following reactions by giving the organic products. (Choose to do 5 of the following reactions) (Circle the ones you want graded. If you do not choose, I will just grade the first 5.) (5 pts each reaction) (color)



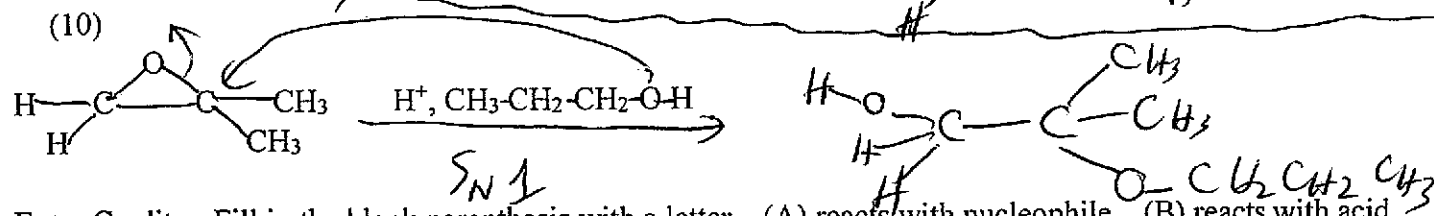
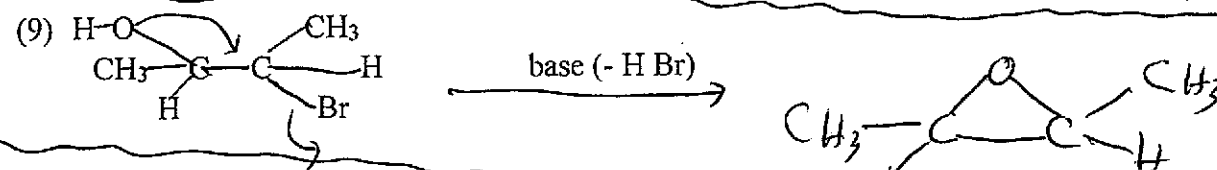
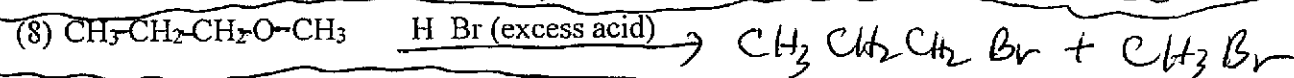
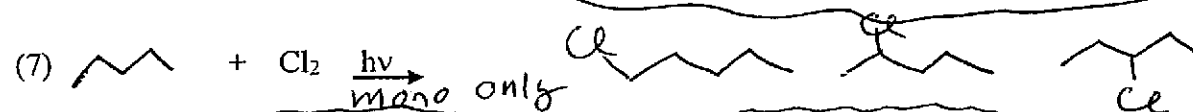
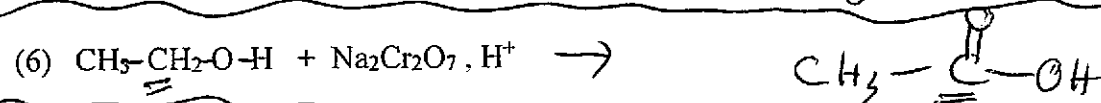
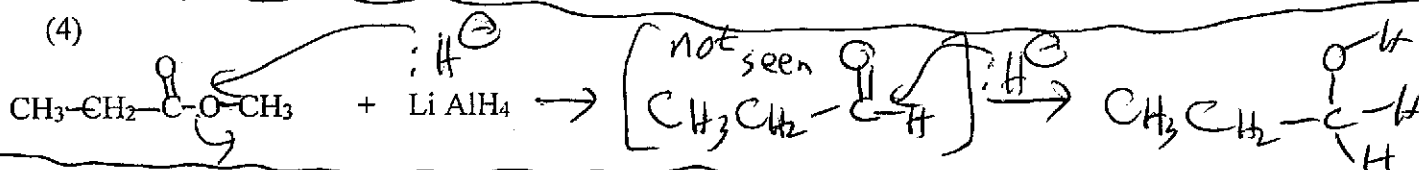
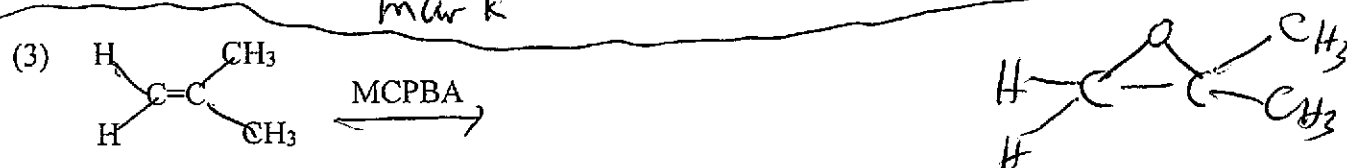
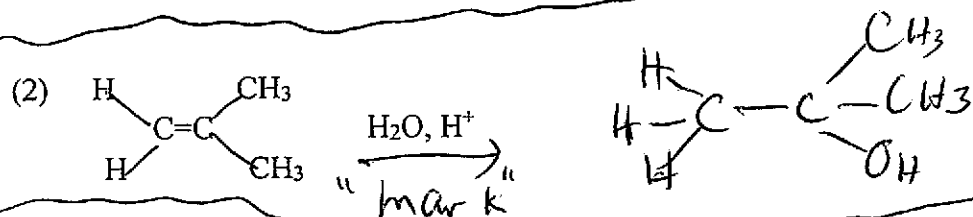
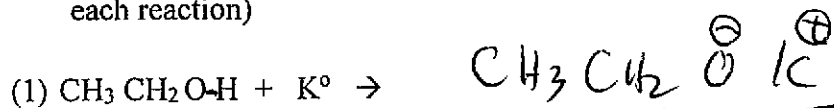
Extra Credit: Fill in the blank parenthesis with a letter. (A) reacts with nucleophile (B) reacts with acid (C) is an acidic proton (D) acts as nucleophile ( $R \neq H$ ) (2 pts)



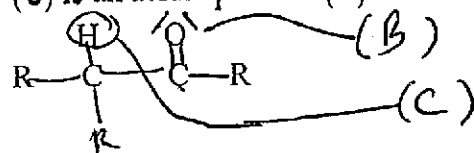
Sign Name Kely Print Name \_\_\_\_\_

Please show work on all questions for partial credit even on questions which do not specify. (25 pts)

1. Complete the following reactions by giving the organic products. (Choose to do 5 of the following reactions) (Circle the ones you want graded. If you do not choose, I will just grade the first 5.) (5 pts each reaction)



Extra Credit: Fill in the blank parenthesis with a letter. (A) reacts with nucleophile (B) reacts with acid (C) is an acidic proton (D) acts as nucleophile ( $\text{R} \neq \text{H}$ ) (2 pts)



Sign Name Key Print Name \_\_\_\_\_

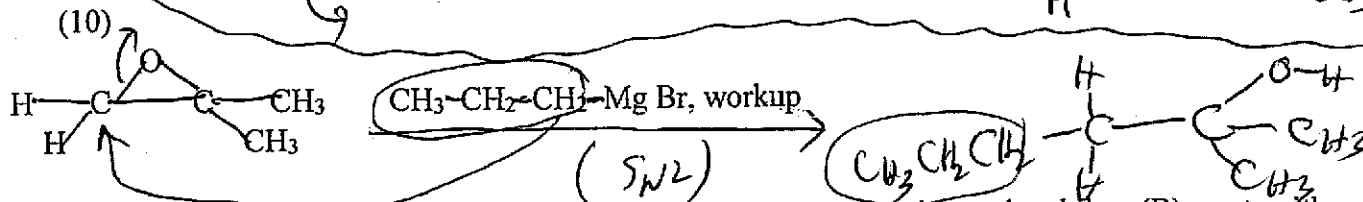
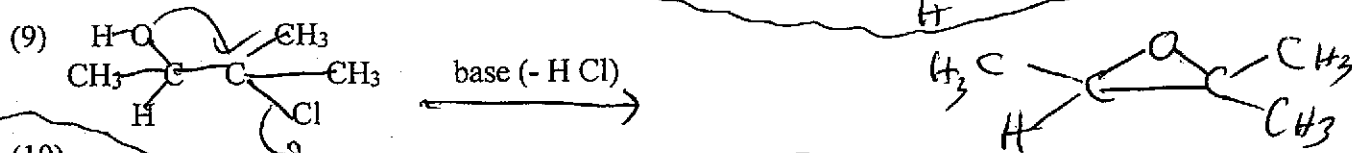
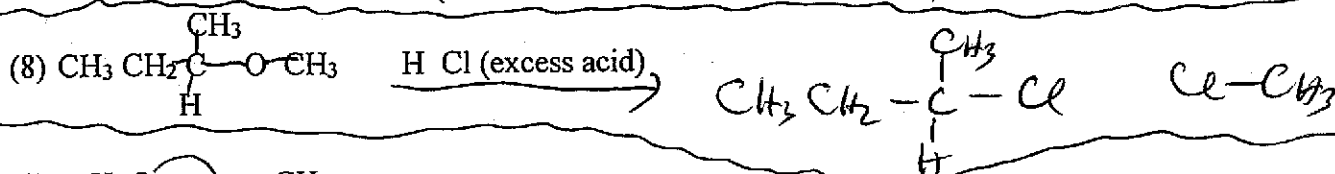
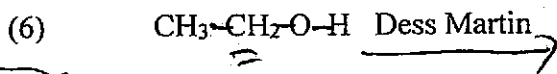
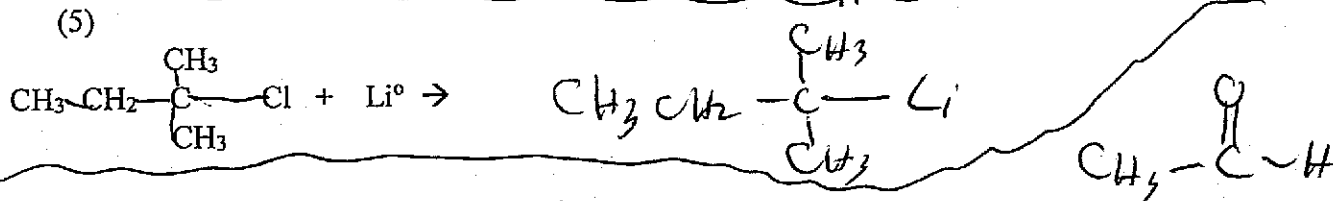
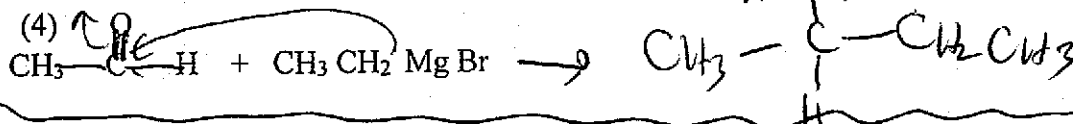
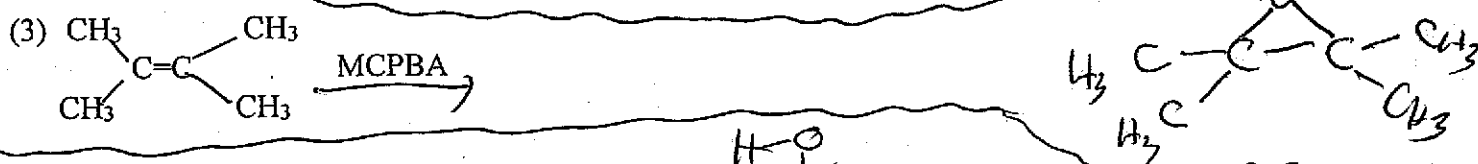
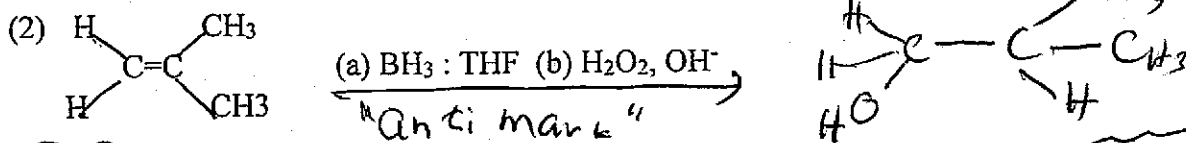
Please show work on all questions for partial credit even on questions which do not specify. (25 pts)

-2 1/2

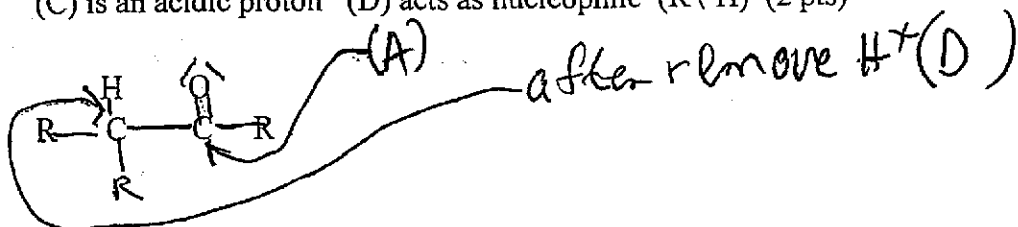
  

NFE = not far enough  
TF = too far

1. Complete the following reactions by giving the organic products. (Choose to do 5 of the following reactions) (Circle the ones you want graded. If you do not choose, I will just grade the first 5.) (5 pts each reaction) (color)



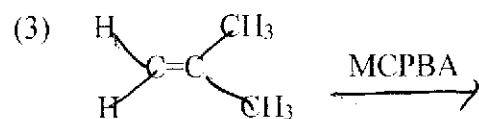
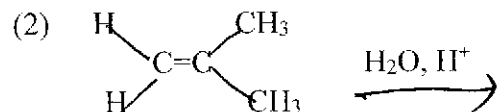
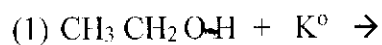
Extra Credit: Fill in the blank parenthesis with a letter. (A) reacts with nucleophile (B) reacts with acid (C) is an acidic proton (D) acts as nucleophile ( $R \neq H$ ) (2 pts)



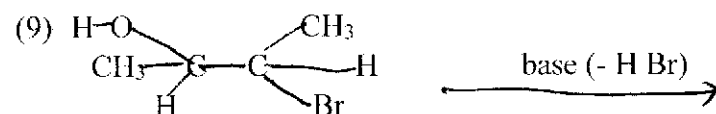
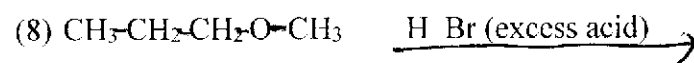
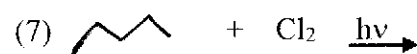
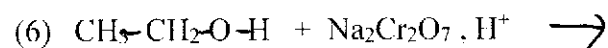
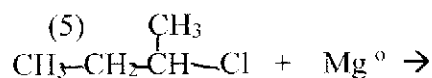
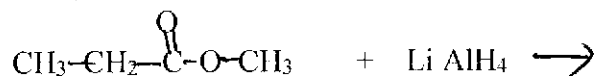
Sign Name \_\_\_\_\_ Print Name \_\_\_\_\_

Please show work on all questions for partial credit even on questions which do not specify. (25 pts)

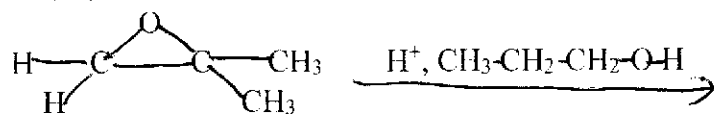
1. Complete the following reactions by giving the organic products. (Choose to do 5 of the following reactions) (Circle the ones you want graded. If you do not choose, I will just grade the first 5.) (5 pts each reaction)



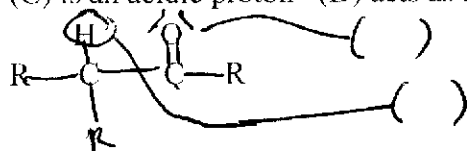
(4)



(10)



Extra Credit: Fill in the blank parenthesis with a letter. (A) reacts with nucleophile (B) reacts with acid (C) is an acidic proton (D) acts as nucleophile ( $\text{R} \neq \text{H}$ ) (2 pts)

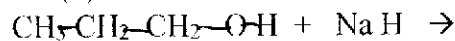


Sign Name \_\_\_\_\_ Print Name \_\_\_\_\_

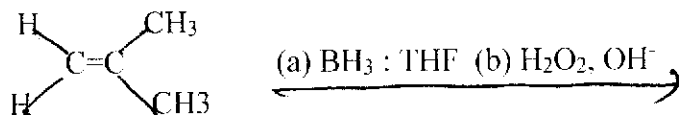
Please show work on all questions for partial credit even on questions which do not specify. (25 pts)

1. Complete the following reactions by giving the organic products. (Choose to do 5 of the following reactions) (Circle the ones you want graded. If you do not choose, I will just grade the first 5.) (5 pts each reaction) (color)

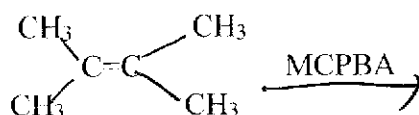
(1)



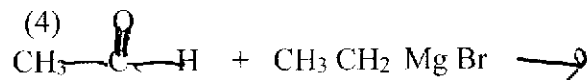
(2)



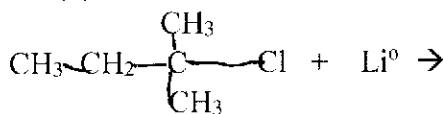
(3)



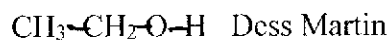
(4)



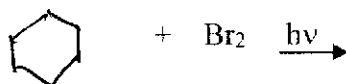
(5)



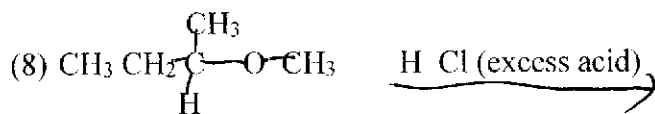
(6)



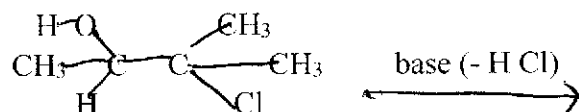
(7)



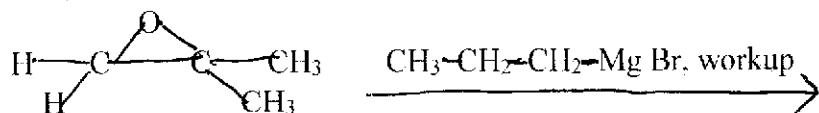
(8)



(9)



(10)



Extra Credit: Fill in the blank parenthesis with a letter. (A) reacts with nucleophile (B) reacts with acid (C) is an acidic proton (D) acts as nucleophile ( $\text{R} \equiv \text{H}$ ) (2 pts)

