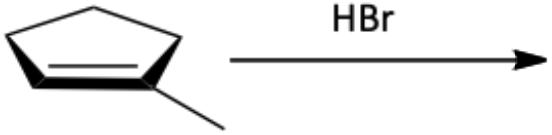
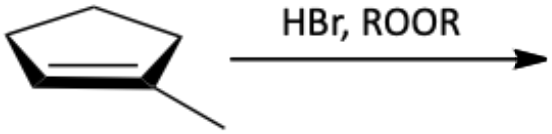
Chapter 11 Review: Draw the Products

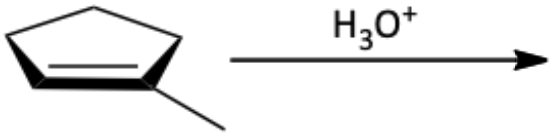
Each reaction shows the starting material and the reagents. Draw the product.

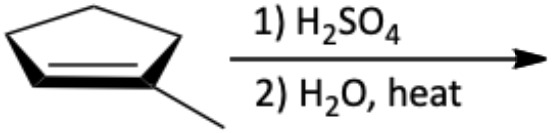
Name: _____ Date: _____

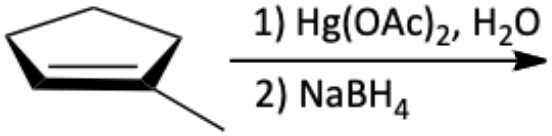
Alkene Reactions

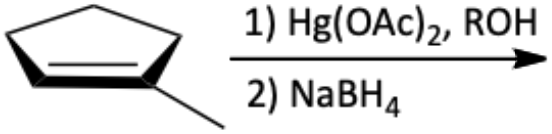
a) 

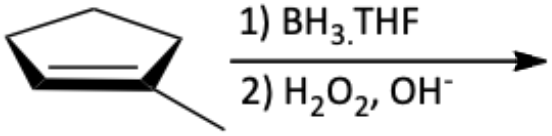
b) 

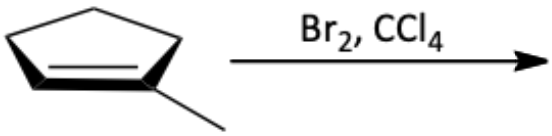
c) 

d) 

e) 

f) 

g) 

h) 

i)  Br_2, H_2O →

j)  MCPBA, CCl_4 →

k)  RCO_3H, H_2O →

l)  CH_2N_2 →

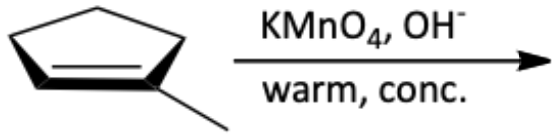
m)  CH_2I_2, Zn(Cu) →

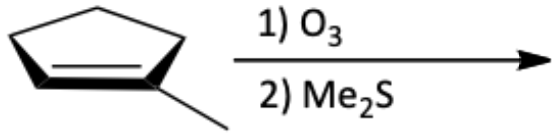
n)  $CHCl_3$, NaOH →

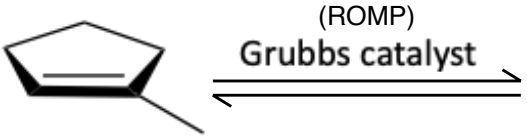
o)  H_2, Pt →

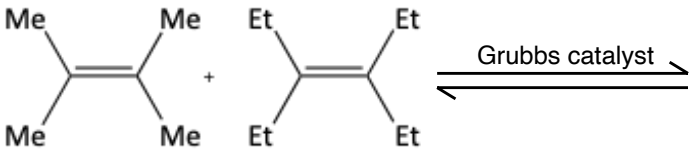
p)  1) OsO_4 → 2) H_2O_2, OH^-

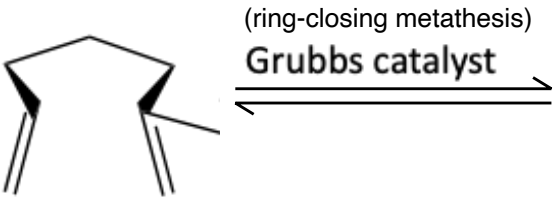
q)  $KMnO_4, H_2O$ → neutral, cold

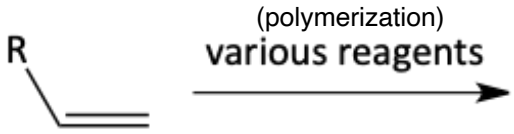
r) 

s) 

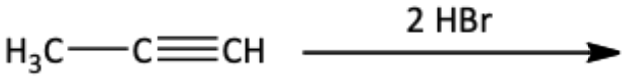
t) 

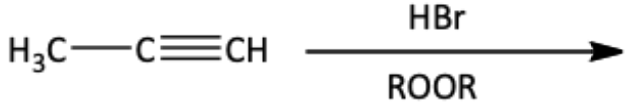
u) 

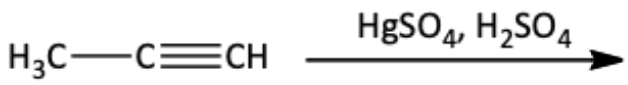
v) 

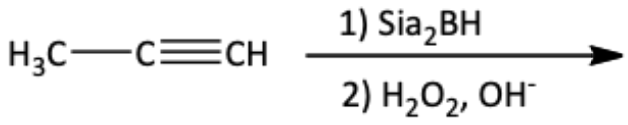
w) 

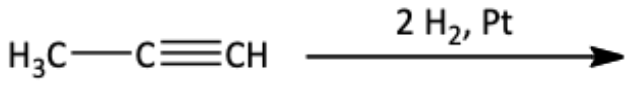
Alkyne Reactions

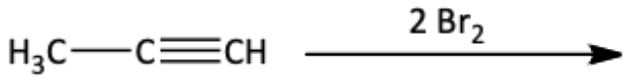
a) 

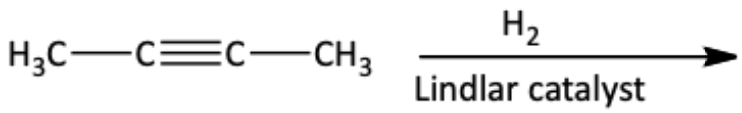
b) 

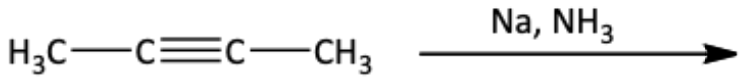
c) 
$H_3C—C\equiv CH$
$HgSO_4$, H_2SO_4

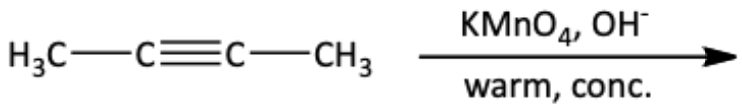
d) 
$H_3C—C\equiv CH$
1) Sia_2BH
2) H_2O_2, OH^-

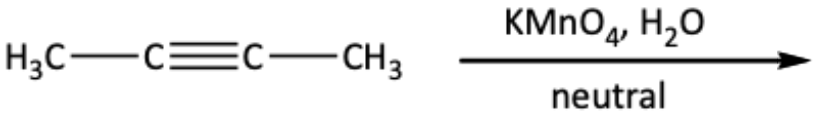
e) 
$H_3C—C\equiv CH$
2 H_2, Pt

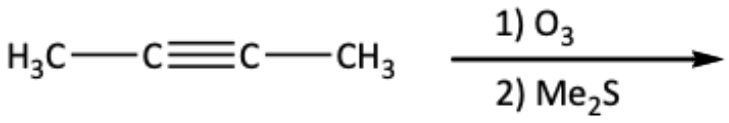
f) 
$H_3C—C\equiv CH$
2 Br_2

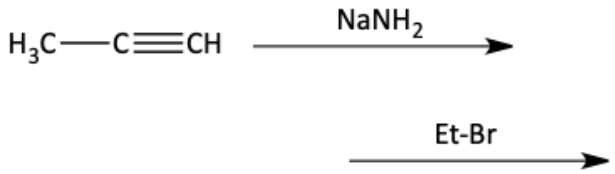
g) 
$H_3C—C\equiv C—CH_3$
H_2
Lindlar catalyst

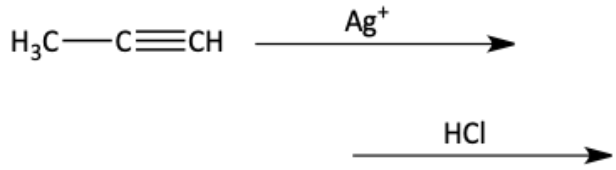
h) 
$H_3C—C\equiv C—CH_3$
Na, NH_3

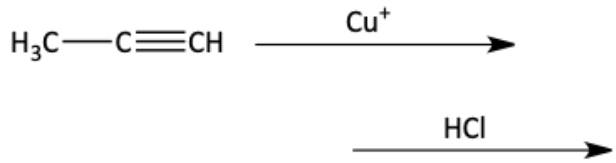
i) 
$H_3C—C\equiv C—CH_3$
$KMnO_4$, OH^-
warm, conc.

j) 
$H_3C—C\equiv C—CH_3$
$KMnO_4$, H_2O
neutral

k) 
H3C—C≡C—CH3
1) O3
2) Me2S

l) 
H3C—C≡CH
NaNH2
Et-Br

m) 
H3C—C≡CH
Ag+
HCl

n) 
H3C—C≡CH
Cu+
HCl