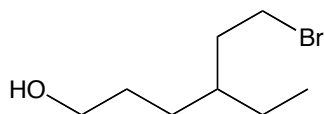


## Recitation Week 15

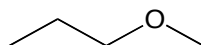
5/1/13

1. Name these compounds:

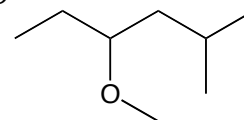
(a)



(b)

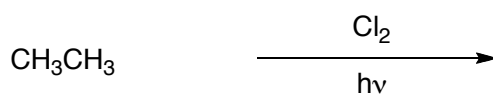


(c)

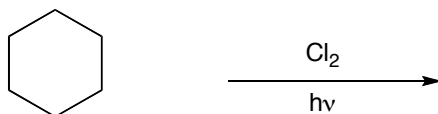


2. Give the major organic products of the following reactions (for a-c, assume the alkane is in excess). Don't forget stereochemistry!

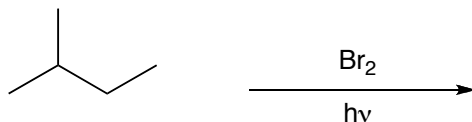
(a)



(b)



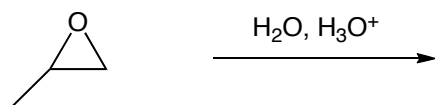
(c)



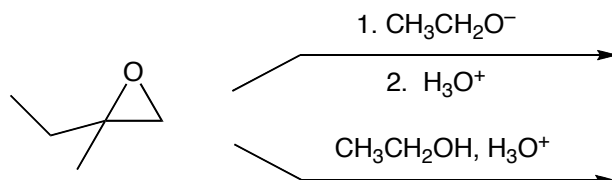
(d)



(e)

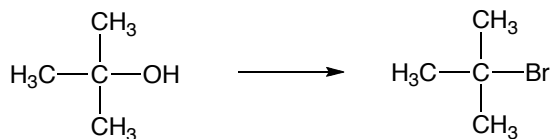


(f)

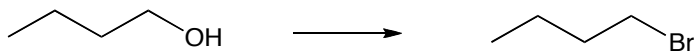
3. Draw the structure of the polymer obtained from the radical polymerization of the generic alkene monomer  $\text{RHC}=\text{CH}_2$ .

4. Give the reagent(s) you would use to achieve the following transformations:

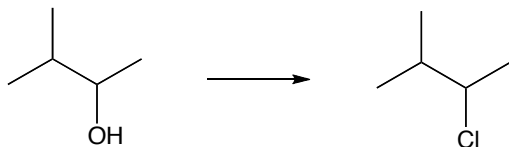
(a)



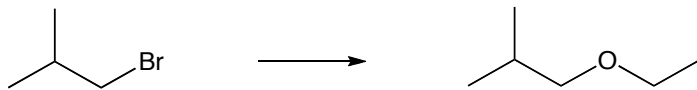
(b)



(c)



(d)



5. An alkyl bromide has the following  $^1\text{H}$ -NMR spectrum (the numbers above each signal are its integration). Deduce its structure. The mass spectrum shows molecular ions at  $m/z = 136$  and  $138$  (bromine has two isotopes,  $^{79}\text{Br}$  and  $^{81}\text{Br}$ ).

