

PRACTICE PROBLEMS – UNIT 14

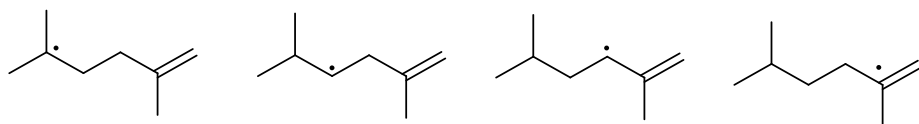
14A. Predict the relative stability of radicals.

14A.1 Circle the most stable radical in each set.

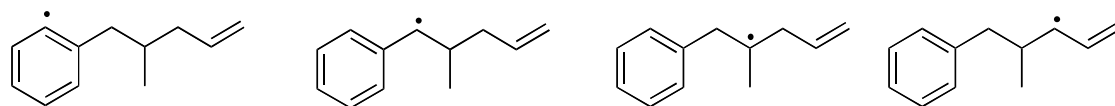
a)



b)



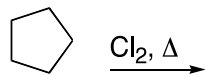
c)



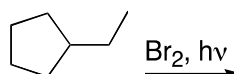
14B. Predict the major product of the radical halogenation of alkanes and allylic halogenation of alkenes.

14B.1 Predict the major product(s) of the following radical halogenations.

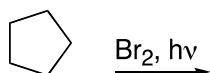
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f)



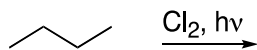
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g)



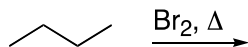
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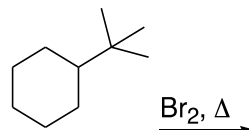
h)



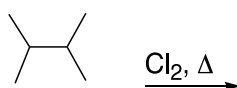
d)



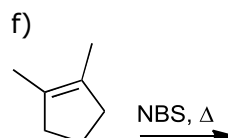
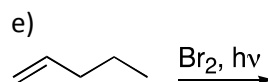
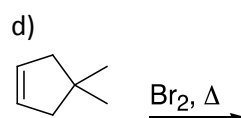
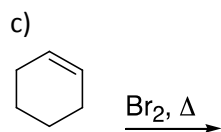
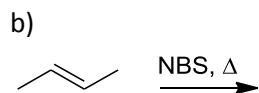
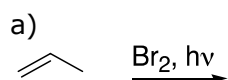
i)



e)

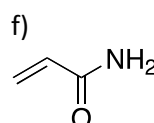
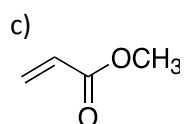
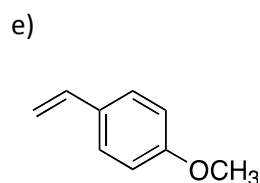
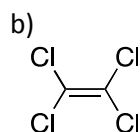
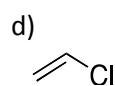
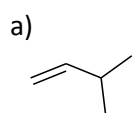


14B.2 Predict the major product(s) of the following allylic radical halogenations.



14C. Predict the structure of a polymer given a monomer.

14C.1 Predict the structure of the polymer formed from the following monomers in the presence of ROOR and heat.



14C.2 What monomer was used to form the following polymers?

