

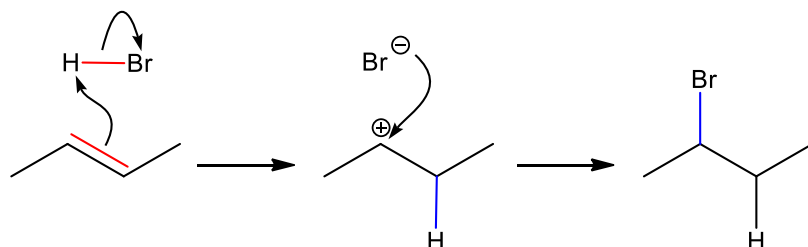
CHEM1002 Worksheet 3 – Answers to Critical Thinking Questions

The worksheets are available in the tutorials and form an integral part of the learning outcomes and experience for this unit.

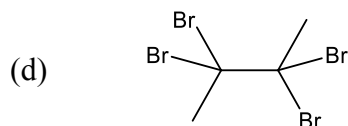
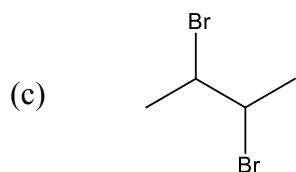
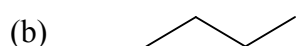
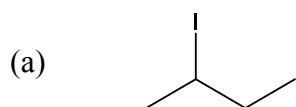
Model 1: Addition to Symmetrical Alkenes and Alkynes

1. Nucleophile

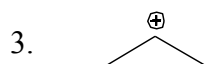
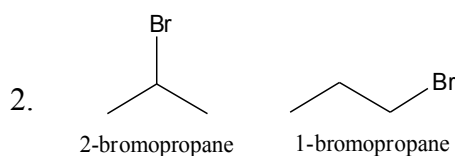
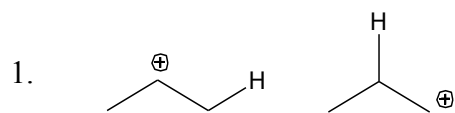
2. Broken = red. Formed = blue.



3.



Model 2: Addition to Unsymmetrical Alkenes and Alkynes



4. 2-bromopropane.

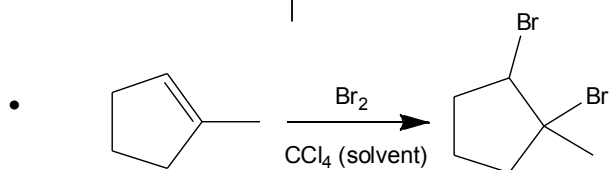
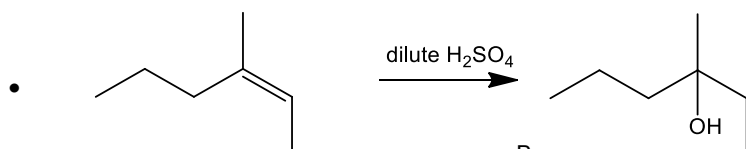
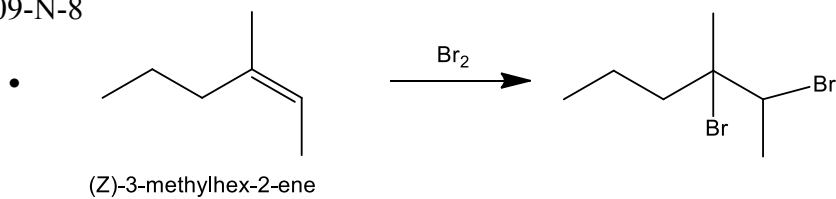
5. H₂O



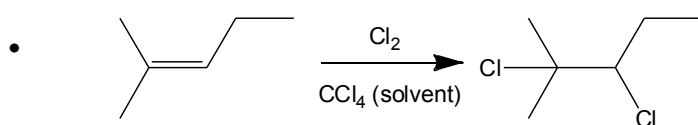
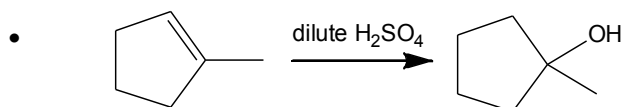
Exercises

1. (d)

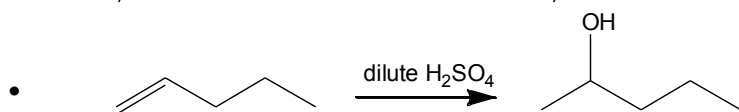
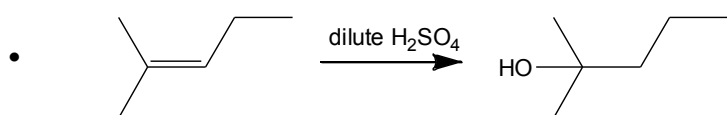
2009-N-8



1-methylcyclopent-1-ene

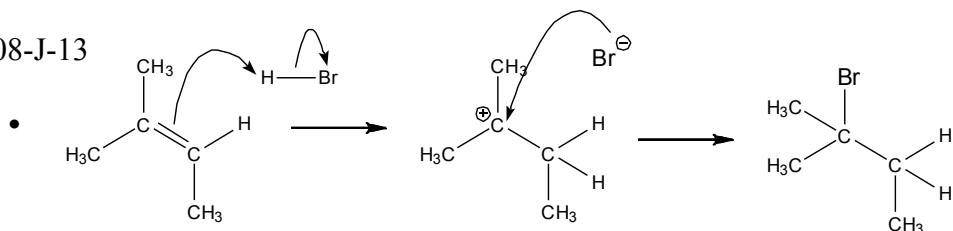


2-methylpent-2-ene



pent-1-ene

2008-J-13



• HBr is the electrophile

2009-J-12

