

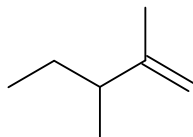
Chemistry 11  
Organic Chemistry  
Homework I

Name: \_\_\_\_\_

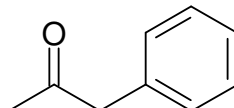
Sect. # \_\_\_\_\_

(1) Determine the molecular formula ( $C_xH_y$  etc.) for the following organic compounds.

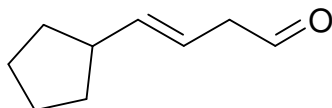
a.



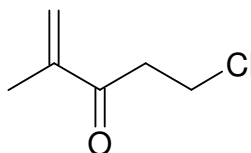
b.



c.

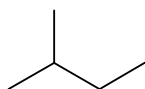


d.

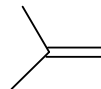


(2) Give the systematic IUPAC name for the following organic compounds.

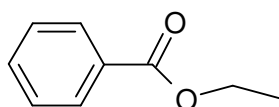
a.



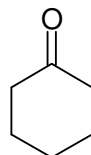
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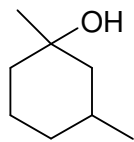
c.



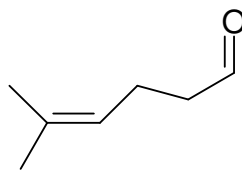
d.



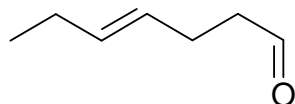
e.



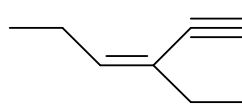
f.



g.



h.



(3) Given the names, draw the structures for the following organic compounds.

a. trans-2-butene

b. 3,3-dimethyl-2-butanol

c. 3,7-dimethyl-6-octenal

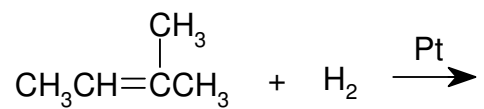
d. butanoic acid

e. (E)-1,4-dichloro-2-butene

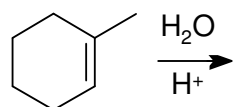
f. 4-hydroxy-2-butanone

(4) Draw the structure for the product(s) of each reaction.

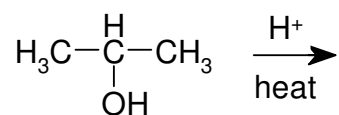
a.



b.



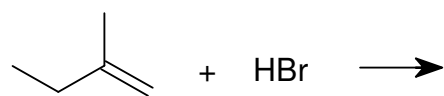
c.



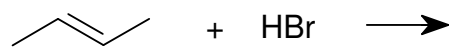
e.



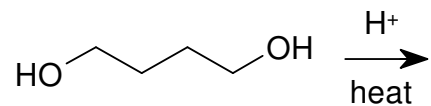
f.



g.



h.



i.

