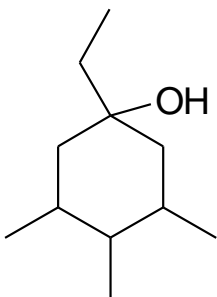
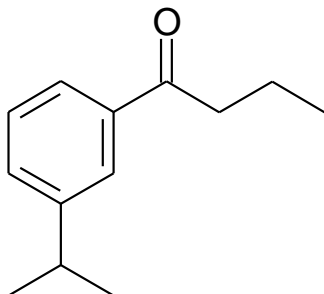


CHM 2210 - Ch 12 Homework

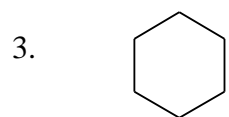
1. For 1-ethyl-3,4,5-trimethylcyclohexanol, predict the cation structures and masses (m/z) that result from the parent peak (MW), alpha cleavage, dehydration, and loss of the one of the methyl groups. (2 pts)



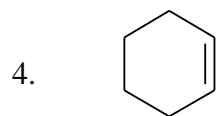
2. Review sections 12-2 and 12-3. For 3-isopropylphenyl propyl ketone, predict the cation structures and masses (m/z) that result from the parent peak (MW), alpha cleavages, the McLafferty rearrangement, and loss of the isopropyl group. (2 pts)



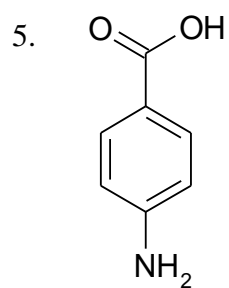
Review the chapter 12 (IR) notes on alkanes, alkenes, and carboxylic acids. Then, review Table 12-1, Fig 12-20 (12.14 in 8e), and Section 12-8. Predict the absorptions in the IR spectra below. Identify the bonds involved the absorptions as well.



cyclohexane (1 pt)



cyclohexene (2 pts)



4-aminobenzoic acid (3 pts)