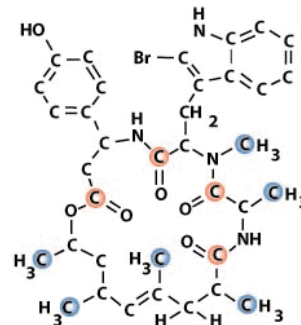
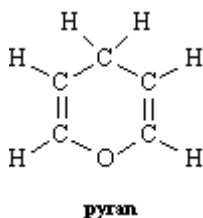


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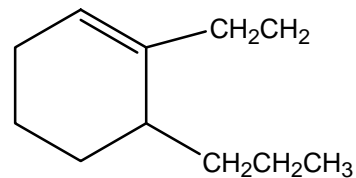
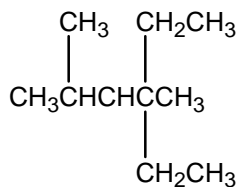
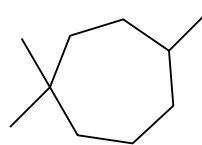
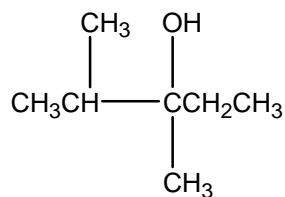
1. Identify the **functional groups** in the following molecule.  
The molecule is Jasplakinolide obtained from a bright orange rubbery sponge (*Jaspis Johnstoni*).



2. Convert the following structure into a **line-angle drawing**.



3. Provide **IUPAC names** for the compounds below:



4. Draw **line-angle structures** corresponding to the following IUPAC names:

2,3-dimethylhexanoic acid

3-phenylpropanal

6. The **hydrochlorination** of 1-propene gives a mixture of products as illustrated.
- Predict the major product and provide a **detailed mechanism** using mechanistic arrows.

