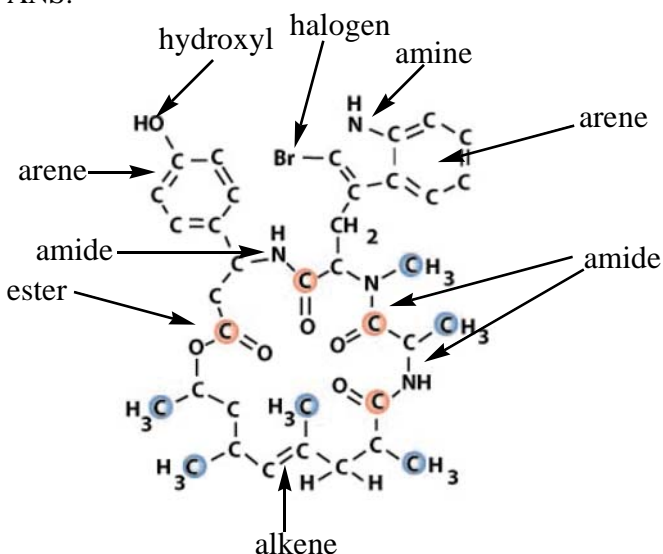


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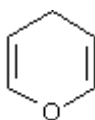
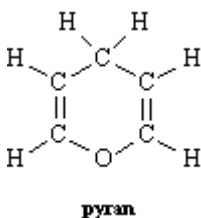
Tutorial 2 Answers

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

ANS:

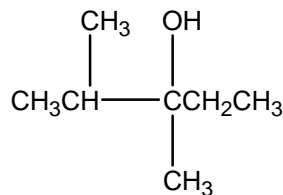


- Convert the following structure into a **line-angle drawing**.

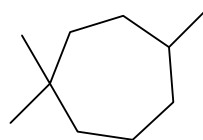


ANS:

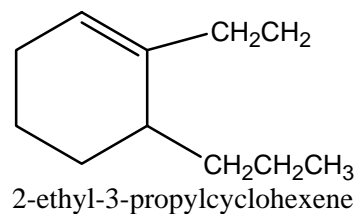
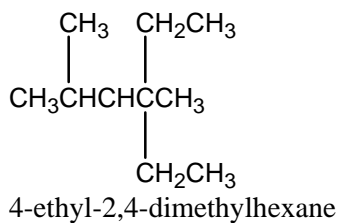
- Provide **IUPAC names** for the compounds below:



2,3-dimethyl-3-pentanol

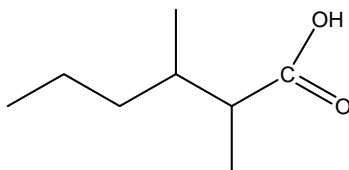


1,1,4-trimethylcycloheptane

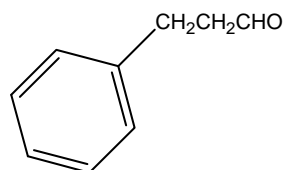


4. Draw **line-angle structures** corresponding to the following IUPAC names:

2,3-dimethylhexanoic acid

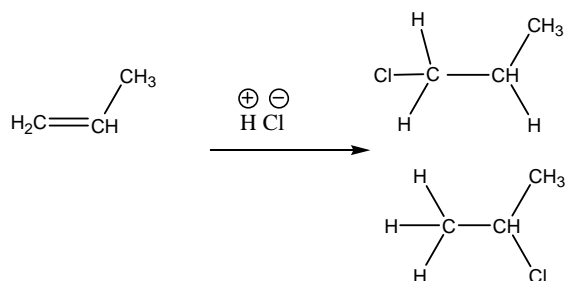


3-phenylpropanal



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.



An addition reaction where the hydrogen ends up on the C of the C=C with the most H's attached to it, Markovnikov's rule.

