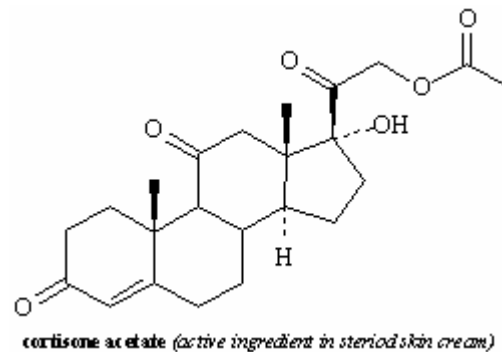
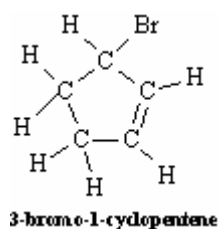


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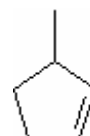
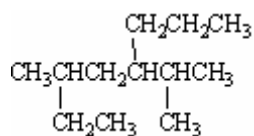
1. Identify the **functional groups** in the following molecule:



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:

3,6-dimethyl-1,4-cyclohexadiene

2-chlorophenol

6. The **hydrobromination** of 2-methylbut-2-ene gives a mixture of products as illustrated.
- Predict the major product and provide a **detailed mechanism** using mechanistic arrows.

