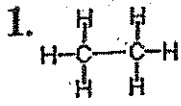
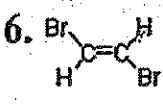
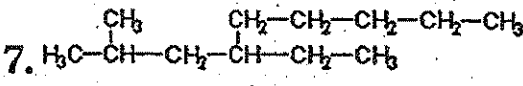
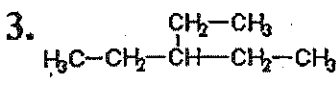
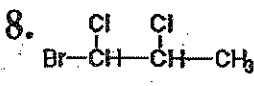
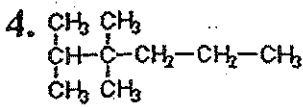
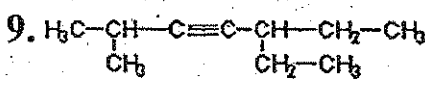
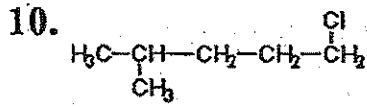


Provide correct IUPAC names for the following compounds:

<p>1. </p>	<p>6. </p>
<p>2. $\text{CH}_3\text{-CH}_2\text{-CH=CH-CH}_2\text{-CH}_3$</p>	<p>7. </p>
<p>3. </p>	<p>8. </p>
<p>4. </p>	<p>9. </p>
<p>5. $\text{HC}\equiv\text{C-CH}_3$</p>	<p>10. </p>

Draw:

1. 1,4-pentadiene

2. propyl benzene

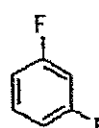
3. bromocyclopropane

What two atoms make up a hydrocarbon?

Which atom has the unique ability to bond to itself forming long chains and to bond to other atoms?

Name the type of molecule each organic compound is (look at their functional groups).

Circle and label functional group for 1-7

<p>1. $\text{H}_3\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}\text{H}$</p>	<p>6. $\text{H}_3\text{C}-\text{O}-\text{CH}_2-\text{CH}_2-\text{CH}_3$</p>
<p>2. $\text{H}_3\text{C}-\overset{\text{O}}{\parallel}{\text{C}}-\text{CH}_2-\text{CH}_3$</p>	<p>7. $\text{H}_3\text{C}-\overset{\text{O}}{\parallel}{\text{C}}-\text{O}-\text{CH}_2-\text{CH}_2-\text{CH}_3$</p>
<p>3. $\text{H}_3\text{C}-\overset{\text{Br}}{\text{CH}}-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}$</p>	<p>8. </p> <p>Name:</p>
<p>4. $\text{H}_3\text{C}-\underset{\text{Cl}}{\text{CH}}-\text{CH}_2-\text{OH}$</p>	<p>9. $\text{H}_3\text{C}-\text{C}=\text{C}-\text{CH}_2-\text{CH}_3$</p> <p>Name:</p>
<p>5. $\text{H}_3\text{C}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{N}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{CH}_3$ $\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{CH}_3$</p>	<p>10. $\text{H}_3\text{C}-\overset{\text{CH}_2-\text{CH}_3}{\text{C}}-\underset{\text{CH}_3}{\text{CH}_2}-\text{CH}_3$</p> <p>Name:</p>

1. How do structural formulas differ from molecular formulas?

2. Explain why hydrocarbons with only single bonds cannot form geometric isomers.

3. What is the difference between aldehydes and ketones?

4. Each of the following names implies a structure but is not a correct IUPAC name. For each example, draw the implied structural formula and write the correct IUPAC name.
- 3-bromopropane

b. 3, 4-dichloro-4-pentene

5. For the functional groups, list a property or use of each

6. Draw and name the isomers of C_6H_{14}