

STRUCTURE OF HYDROCARBONS

Name _____

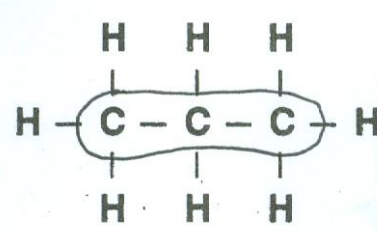
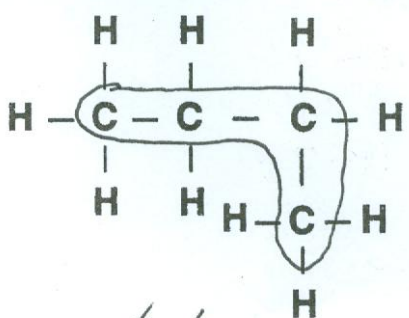
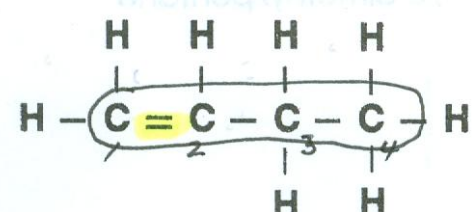
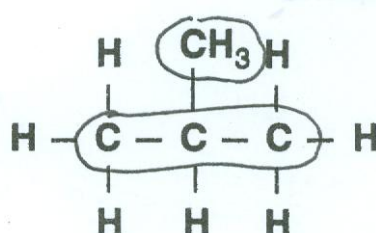
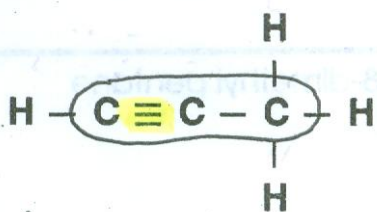
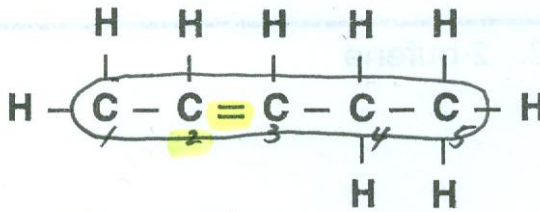
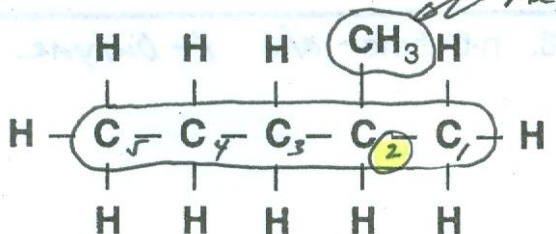
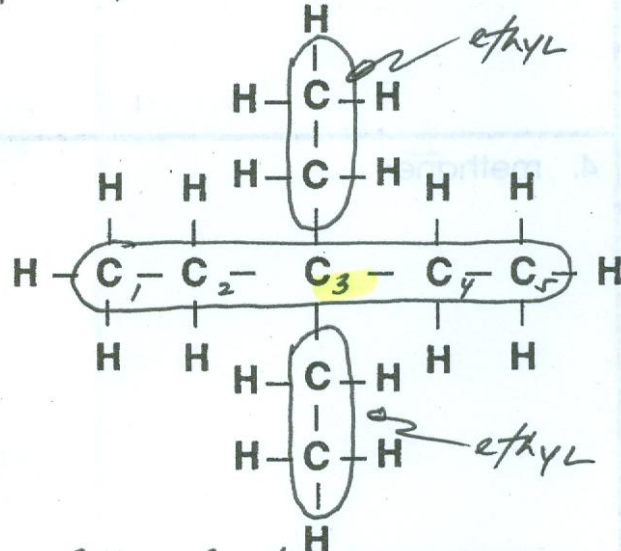
Draw the structure of the compounds below.

<p>1. ethane alkane 2 C</p> $ \begin{array}{c} \text{H} & & \text{H} \\ & & \\ \text{H} - \text{C} & - & \text{C} - \text{H} \\ & & \\ \text{H} & & \text{H} \end{array} $	<p>5. ethyne alkyne 2 C</p> $ \text{H} - \text{C} \equiv \text{C} - \text{H} $
<p>2. propene alkene 3 C</p> $ \begin{array}{c} \text{H} & \text{H} & \text{H} \\ & & \\ \text{H} - \text{C} = & \text{C} - & \text{C} - \text{H} \\ & & \\ & & \text{H} \end{array} $	<p>6. 3,3-dimethylpentane alkane two locations 5 C</p> $ \begin{array}{c} & & \text{CH}_3 & & & & \\ & \text{H} & & \text{H} & & \text{H} & \\ \text{H} - & \text{C}_1 - & \text{C}_2 - & \text{C}_3 - & \text{C}_4 - & \text{C}_5 - \text{H} \\ & & & & & \\ & \text{H} & & \text{H} & \text{H} & \text{H} \end{array} $
<p>3. 2-butene alkene 4 C location</p> $ \begin{array}{c} \text{H} & \text{H} & \text{H} & \text{H} \\ & & & \\ \text{H} - \text{C}_1 - & \text{C}_2 = & \text{C}_3 - & \text{C}_4 - \text{H} \\ & & & \\ & & & \text{H} \end{array} $	<p>7. 2,3-dimethylpentane</p> $ \begin{array}{c} -\text{C}-\text{C}- \\ & & & & \\ -\text{C}_1-\text{C}_2-\text{C}_3-\text{C}_4-\text{C}_5- \\ & & & & \\ & & & & \end{array} $ <p>If you don't write-in the H's, at least write-in the dashes.</p>
<p>4. methane</p> $ \begin{array}{c} \text{H} \\ \\ \text{H} - \text{C} - \text{H} \\ \\ \text{H} \end{array} $	<p>8. n-butene aka 1-butyne alkyne 4 C</p> $ \text{H} & \text{H} \\ & \\ \text{H} - \text{C} \equiv \text{C} - & \text{C} - & \text{C} - \text{H} \\ & & & \\ & & \text{H} & \text{H} $ <p>Careful, Don't attach too many H's to the C's!</p>

NAMING HYDROCARBONS

Name _____

Name the compounds below according to the IUPAC naming system

<p>1.</p>  <p><i>propane</i></p>	<p>5.</p>  <p><i>butane</i></p>
<p>2.</p>  <p><i>1-butene</i></p>	<p>6.</p>  <p><i>methyl propane</i></p>
<p>3.</p>  <p><i>1-propyne</i></p>	<p>7.</p>  <p><i>2-pentene</i></p>
<p>4.</p>  <p><i>2-methyl pentane</i></p>	<p>8.</p>  <p><i>3,3-diethyl pentane</i></p>