

1. Write structures for the following alkanes.

a. 3-ethylpentane

b. 2,2-dimethylbutane

c. 2-methyl-3-ethylheptane

d. 2,3-dimethylpentane

e. 2,2,4-trimethylpentane

f. 2,2-dimethylpropane

g. 2-methyl-3-ethyl-4-isopropylnonane

h. 2,3,4-trimethylheptane

i. 4-isopropyloctane

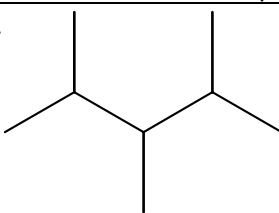
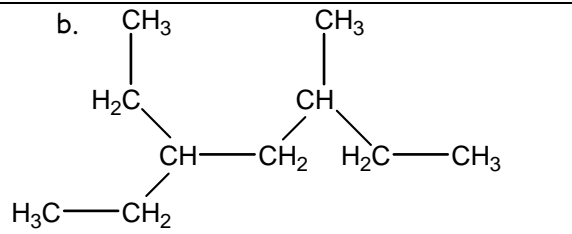
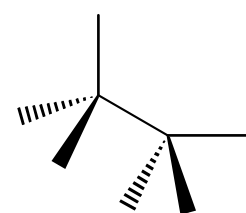
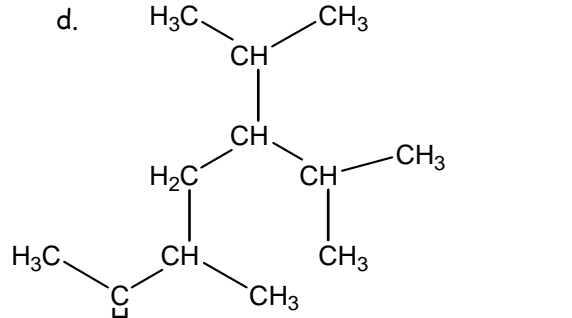
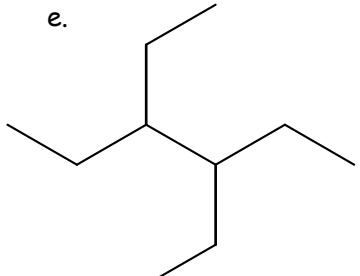
j. 2-methylpropane

k. 2,3-dimethylbutane

l. 2-methylpentane

2. Draw all of the structural isomers of the alkane C_6H_{14}

3. Name the following compounds using the IUPAC nomenclature. You may substitute common names for side-chains as found in your lecture notes.

<p>a.</p> 	<p>b.</p> 
<p>c.</p> 	<p>d.</p> 
<p>e.</p> 	<p>f.</p> 