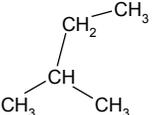
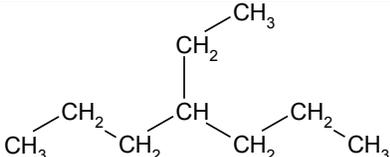
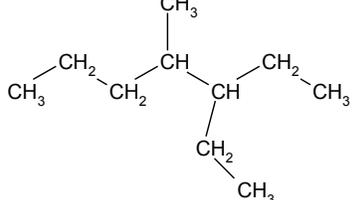
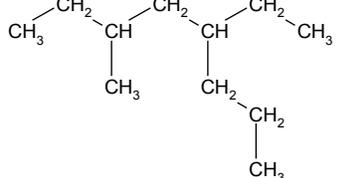
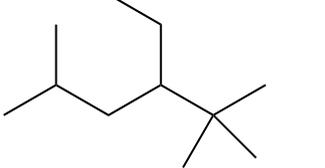
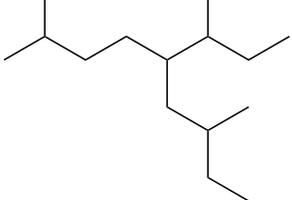
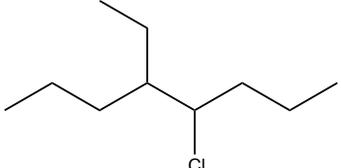
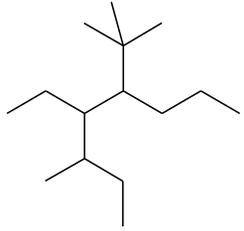


Practice Problems on Alkane Nomenclature

1	 <p>Chemical structure showing a central carbon atom bonded to two methyl groups (CH₃) and two ethyl groups (CH₂-CH₃).</p>	
2	 <p>Chemical structure showing a six-carbon main chain (hexane) with a methyl group (CH₃) at C2, an ethyl group (CH₂-CH₃) at C3, and a methyl group (CH₃) at C4.</p>	
3	 <p>Chemical structure showing a six-carbon main chain (hexane) with a methyl group (CH₃) at C2, an ethyl group (CH₂-CH₃) at C3, and a methyl group (CH₃) at C4.</p>	
4	 <p>Chemical structure showing a six-carbon main chain (hexane) with a methyl group (CH₃) at C2, an ethyl group (CH₂-CH₃) at C3, and a methyl group (CH₃) at C4.</p>	
5	 <p>Chemical structure showing a six-carbon main chain (hexane) with a methyl group (CH₃) at C2, an ethyl group (CH₂-CH₃) at C3, and a methyl group (CH₃) at C4.</p>	
6	 <p>Chemical structure showing a six-carbon main chain (hexane) with a methyl group (CH₃) at C2, an ethyl group (CH₂-CH₃) at C3, and a methyl group (CH₃) at C4.</p>	
7	 <p>Chemical structure showing a six-carbon main chain (hexane) with a methyl group (CH₃) at C2, a chlorine atom (Cl) at C3, and a methyl group (CH₃) at C4.</p>	
8	 <p>Chemical structure showing a six-carbon main chain (hexane) with a methyl group (CH₃) at C2, an ethyl group (CH₂-CH₃) at C3, and a methyl group (CH₃) at C4.</p>	
9	 <p>Chemical structure showing a six-carbon main chain (hexane) with a methyl group (CH₃) at C2, an ethyl group (CH₂-CH₃) at C3, and a methyl group (CH₃) at C4.</p>	

Draw structural formulas for each of the following.

10) 4-ethyloctane

11) 2-methylnonane

12) 3,3-dimethylpentane

13) 3-ethylpentane

14) 3-ethyl-2-methylheptane

15) 3-ethyl-4-(1-methylpropyl)-2,2-dimethyloctane