Naming Alkanes - Worksheet #1

Name the following branched alkanes:

Name the following branched alkanes:	
H ₃ C — CH — CH ₃	
H ₃ CCH ₃	
ĊH ₂ —СH ₃ H ₁ С—СH ₂ —СH ₂ —СH ₂ —СH ₂ —СH ₃	
СH ₂ —СH ₃	
CH ₂ —CH ₃ H ₃ C—CH ₂ —CH ₂ —CH—CH—CH ₂ —CH ₃ CH ₃	
CH2—CH2—CH3 H ₃ C—CH2—CH—CH ₂ —CH—CH ₂ —CH3 CH ₃	
CH ₃ CH ₂ —CH ₂ —CH—CH ₂ —CH ₃ CH ₃ CH ₃	
H ₃ C	
CH ₃ ——CH ₃ CH ₃ ——CH ₃	
CH ₂ —CH ₃ H ₃ C—CH ₂ —CH ₂ —CH ₃ CH ₂ —CH ₃	
H ₃ CCH ₂ CH ₂	

CH2CH3 H2C	
ĊH ₃ ĊH ₂ —СH ₃ СH ₃ CH ₃ CH ₃	
сн ₃ сн ₂ сн ₂ 1 1 сн ₂ – сн ₂ – сн ₂	
CH ₃ CH ₃ CH ₃ CH ₂ CH ₃ CH ₃ CH ₄ CH ₂ CH ₃ CH ₃ CH ₃	
CH ₃ CH ₂ CH ₃ CH ₃ CH ₂ CH ₃ CH ₃	
сн ₃ сн ₃ сн ₃ сн ₃ сн ₃ сн ₂ сн ₂ сн— сн ₂ – сн— сн ₃ сн ₃ сн ₃	
CH ₃ CH ₂ CH ₃ CH ₄ CH ₂ CH ₃ CH ₄ CH ₂ CH ₃ CH ₂ CH ₃ CH ₃ CH ₃ CH ₃ CH ₃	
CH ₃ CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ I I I CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃	

Naming Alkanes - Worksheet #2

Draw the structural formula and line angle formula for the following molecules. Remember the following: Carbons on the end of a chain are attached to three hydrogens Carbons in the middle of a chain are attached to two hydrogens Carbons that have one branch attached are also attached to one hydrogen Carbons that have two branches attached are not attached to any hydrogens	2,3,4,5,6,7-hexamethyl-octane
4-ethyl-octane	4-ethyl-octane
2-methyl-nonane	
3,3-dimethyl-pentane	2-methyl-nonane
3-ethyl-pentane	2-ethyl-2methyl-butane
3-ethyl-2methyl-heptane	
2,2,3-trimethyl-butane	3-ethyl-pentane
3-ethyl-2,2-dimethyl-hexane	2-ethyl-2-methyl-heptane