Unit 2, Lesson 02: Alkenes and Alkynes

Answers to Homework:

Page 16, Q5: answers on page 56 are correct

Page 17, Q6:

6a) propane CH₃ -CH₂-CH₃

6b) 4-ethyl-3-methylheptane

 ${
m CH_3-CH_2} \ {
m I} \ {
m CH_3-CH_2-CH_2-CH_2-CH_3} \ {
m CH_3-CH_3} \ {
m CH_3}$

6c) 3-methyl-2,4,6-octatriene

 CH_3 I $CH_3-CH=C-CH=CH-CH=CH-CH_3$

Page 17, Q7; answers on page 55 are correct

Page 17, Q8: answers on page 55 are correct

Page 17, Q9: a) 3-propyl-2-butene $CH_2 - CH_2 - CH_3$ I $CH_3 - CH = C - CH_3$

should be named for the longest carbon chain:

3-methyl-2-hexene

9b) 1,3-dimethyl-4-hexene

 $CH_2-CH_2-CH-CH=CH-CH_3$ $I \qquad \text{should be nar}$ $CH_3 \qquad \text{and numbers}$

should be named for the longest carbon chain, and numbered from the end to give the lowest position number for the double bond:

9c) 4-methylpentane

tane CH₃ I :H₃ – CH₂ – CH₂ – CH – CH

should be numbered to give the methyl group the lowest position number: 2-methylpentane

4-methyl-2-heptene

Page xxxv, Q 37 and 38: answers on page xxxvi are correct

Page xxxvi, Q 39 – 40: answers on page xxxvi are correct