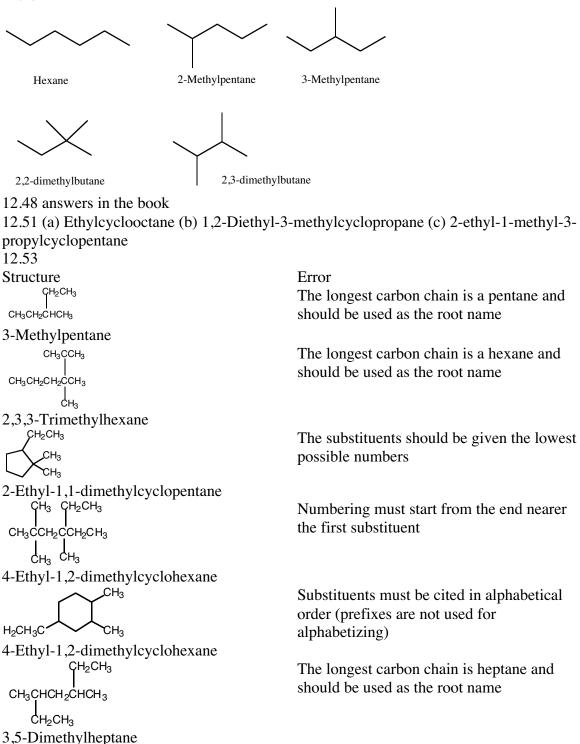
Lecture 2 – Selected answers to homework

12.46 most of the answer s are in the book. Here are some other possible aswers:

b. 5-(1-methylethyl)-3-methyloctane

d. 4-(1-methylethyl)-4-methyloctane

12.47



13.27 (a) meta (b) para 13.30 answers in the book 13.32 answers in the book 13.73 Structure CH₃ 5-Methyl-2-hexene H₃C H₃CCCCH₂CH₂CH₃ н₃с 2,2-Dimethyl-3-hexyne H₃CH₂CH₂CH₂CH₂CH₂CH₂CH₂ 2-Methyl-1-hexene *m*-dibromobenzene (1,3-Dibromobenzene) CH₃ СН₃

3,4-Dimethylcyclohexene CH₃ H₂C=CHC=CHCH₃ 3-Methyl-1,3-pentadiene Error Numbering should start from the end near the double bond

Numbering should start from the end nearer the first substituent

The longest chain should be used as the base name

Substituents should receive the lowest possible numbers. It is better to name this compound as *m*-disubstituted benzene

The double bon receives the lowest number (Fro cyclic alkenes, the double bond receives no number but is understood to be between 1 and 2)

The double bond should receive the lowest possible numbers