

Please show work for all questions for partial and full credit. (20 pts) Dr. Hahn Intro Chemistry II Lecture

1. For an alkane with 14 carbons, how many hydrogens do you have?

(a) 30 H atoms (2 pt)

$$(14 \times 2) + 2 = 30$$

28

(b) give general formula for the molecular formula of the 14 C alkane) (4 pts)

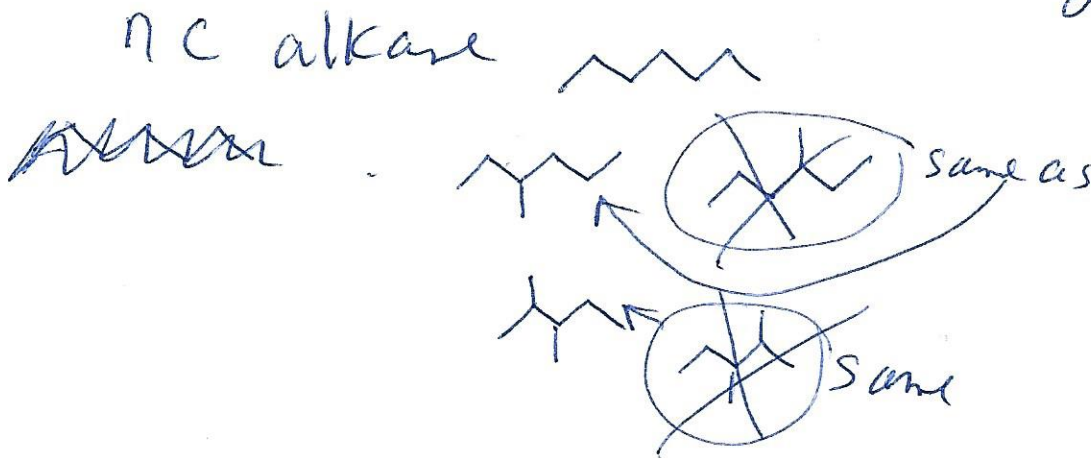


$$n = 14$$

gave formula + counted OK

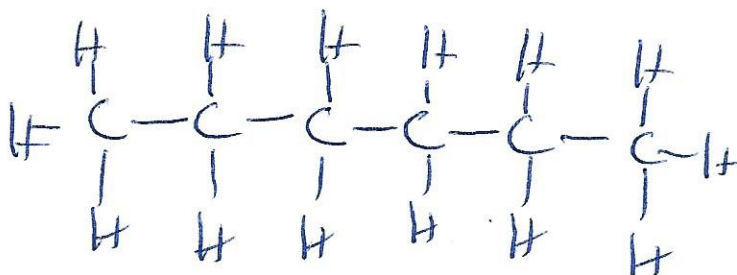
OK
OK
OK

2. Give 2 structural isomers of the following molecule. (6 pts, 3pts each) *try more -*



3. For the alkane given as a condensed structural formula (CH₃ CH₂CH₂ CH₂ CH₂ CH₃) give (8 pts, 4 pts each)

(a) Structural formula



(b) Skeletal (or line bond) formula



BA - 2
BA =
bad attempt