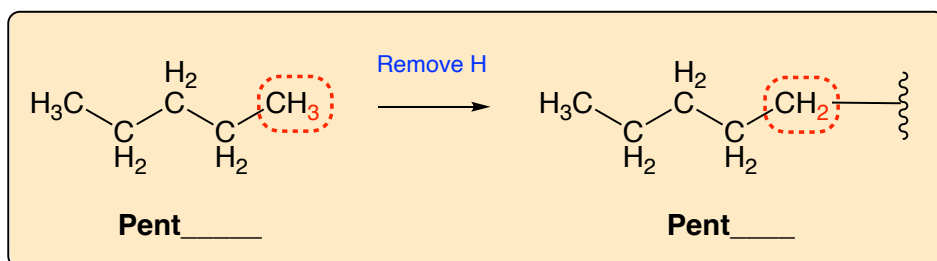


## CONCEPT: THE ALKYL GROUPS

- Before learning to name more organic compounds, we must first take a look at the names of \_\_\_\_\_ groups.

□ **Alkyl Groups:** formed by removal of a \_\_\_\_\_ from an \_\_\_\_\_ compound.

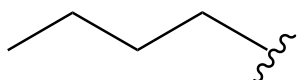
- Name alkyl group by using alkane prefixes with \_\_\_\_\_ suffix.



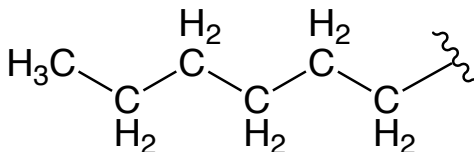
Alkyl Prefixes			
# of Cs	Prefix	# of Cs	Prefix
1	Meth-	4	But-
2	Eth-	5	Pent-
3	Prop-	6	Hex-

**EXAMPLE:** Provide names of the alkyl groups below.

i)



ii)

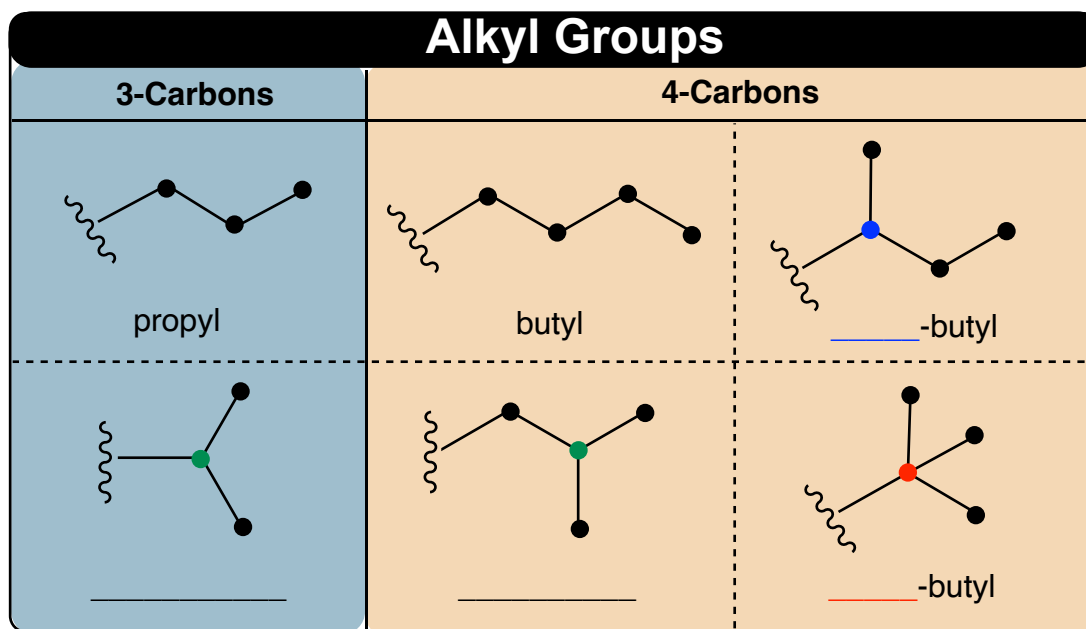


## CONCEPT: THE ALKYL GROUPS

### 3 and 4 Carbon Alkyls

- We must learn additional names for alkyl groups with 3 and 4 carbons.

□ These molecules have \_\_\_\_\_ isomers.



□ **Secondary Carbon:** C attached to \_\_\_\_ other Cs; **Tertiary Carbon:** C attached to \_\_\_\_ other Cs.

**EXAMPLE:** Provided below is a structure of an alkane. Identify names of all alkyl groups present in red.

