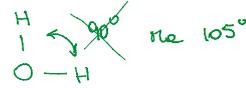
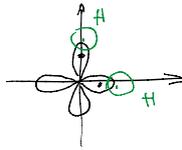
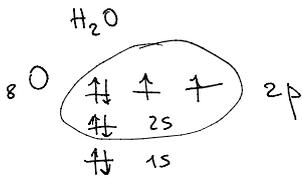
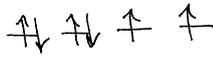


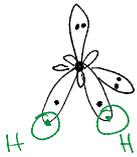
IBRIDAZIONE



Ibridazione sp^3



4 orbitali ibridi



Perché non $109,5^\circ$



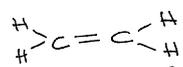
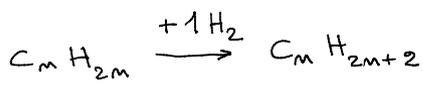
IDROCARBURI

Solo H e C

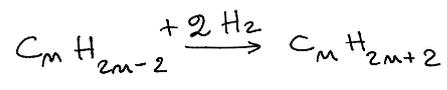
AROMATICI (Benzene)

ALIFATICI

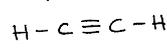
ALCANI $C_m H_{2m+2}$ SATURI
 CICLOALCANI $C_m H_{2m}$
 ALCHENI $C_m H_{2m}$
 ALCHINI $C_m H_{2m-2}$ } INSATURI



Gli alcheni presentano 1 GRADO di INSATURAZIONE perché serve 1 MOLECOLA di H_2 per trasformarli in alcani (dovuto al doppio legame)

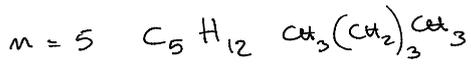
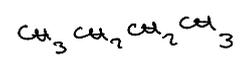
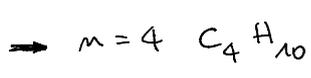
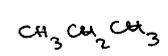
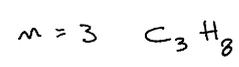
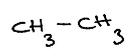
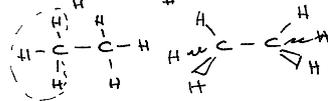
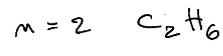
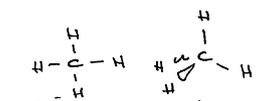
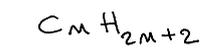


Gli alchini presentano 2 GRADI di INSATURAZIONE (dovuti al triplo legame)



ALCANO
singolare
ALCANI

C tutti ibridati: sp^3 tetraedici legami σ



RADICE **Metano** DESINENZA

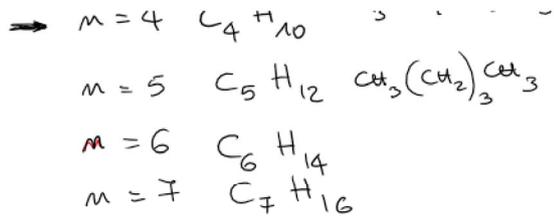
Etano

Propano

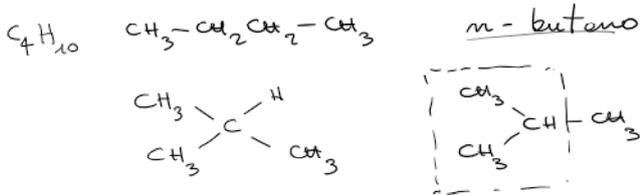
Butano

Pentano

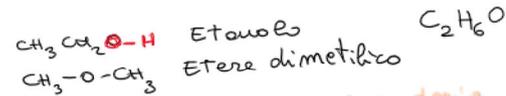
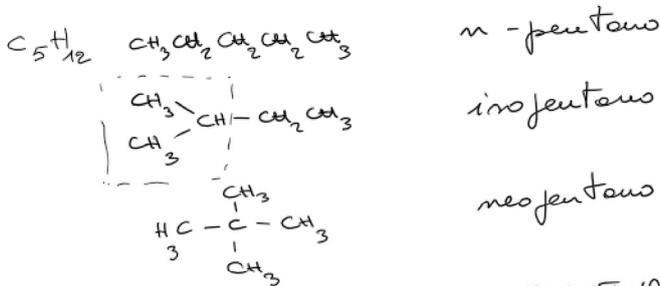
$H-C=O$ **Metanale**
 CH_3-OH **Metanolo**



Pentano
 Esano
 Eptano
 Ottano
 Nonano
 Decano
 Undecano
 Dodicani ...

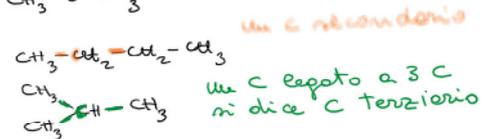


ISOMERI
 Sono molecole
 con la stessa
 f. brute

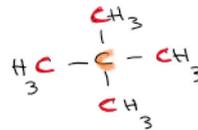
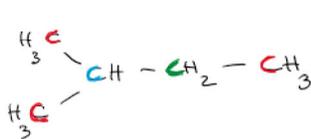


ISOMERI
 (= f. brute)

ISOMERI DI STRUTTURA
 o COSTITUZIONALI (f. strutture)

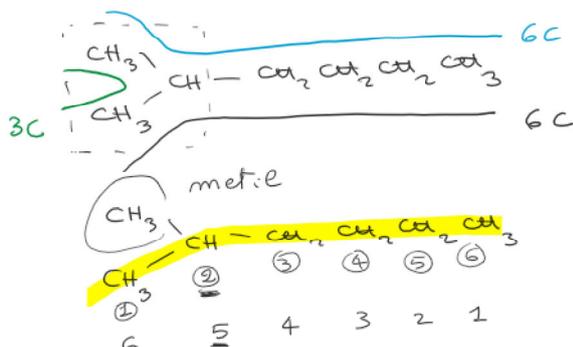


STEREOISOMERI (= struttura ≠ disposizione
 nello spazio di gruppi/atomi)



- C PRIMARI
- C SECONDARI
- C TERZIARI
- C QUATERNARI

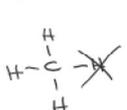
NOMENCLATURA IUPAC



isoeptano

6C → Esano
 metil esano
 2-metil esano

GRUPPO ALCHILICO

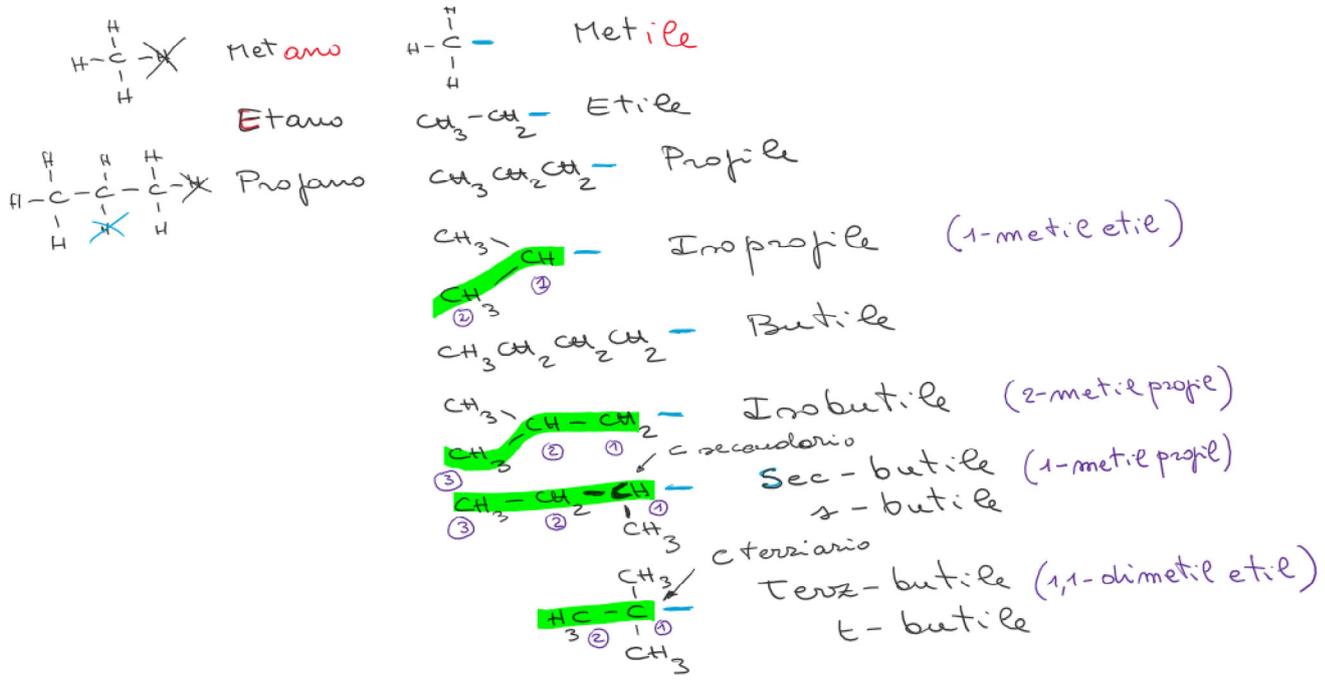


Metano



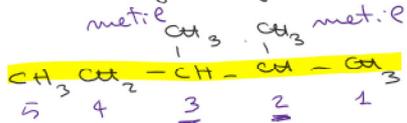
Metile

-t.o.

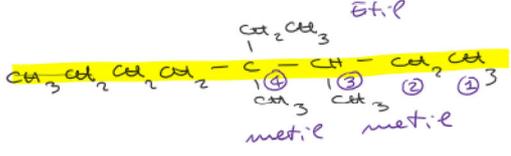


Regole IUPAC

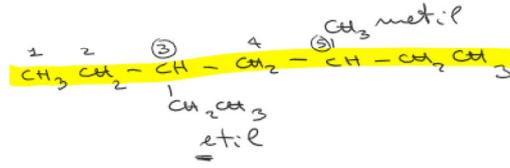
1. Individuare la catena più lunga di atomi di C
2. Denominare i pr. sostituenti
3. Numerare la catena in modo da attribuire le cifre più basse al sostituito.



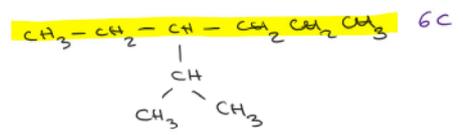
pentano
 di metile pentano
 2,3-dimetile pentano



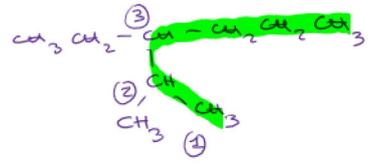
ottano
 3,4-dimetile-4-etile ottano
 4-etile-3,4-dimetile ottano



eptano
 3-etile-5-metile eptano

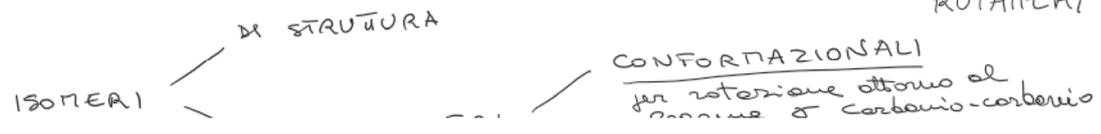


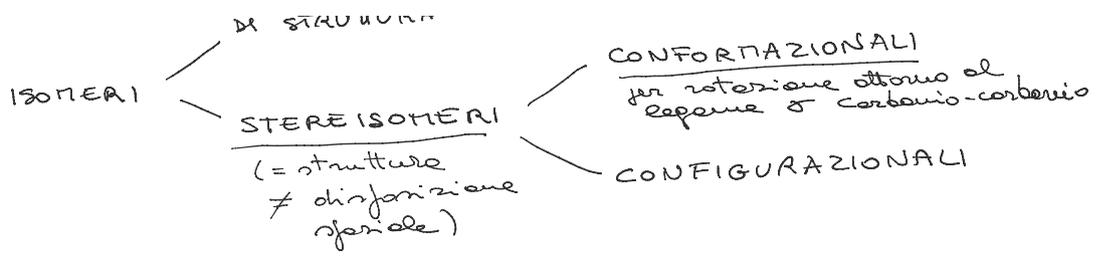
Solo 1 sostituito



2 sostituiti:
 Si deve scegliere la catena con più sostituiti

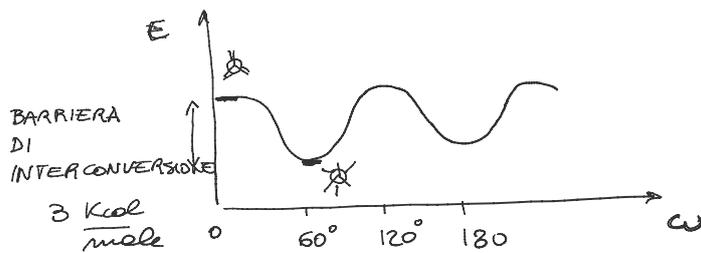
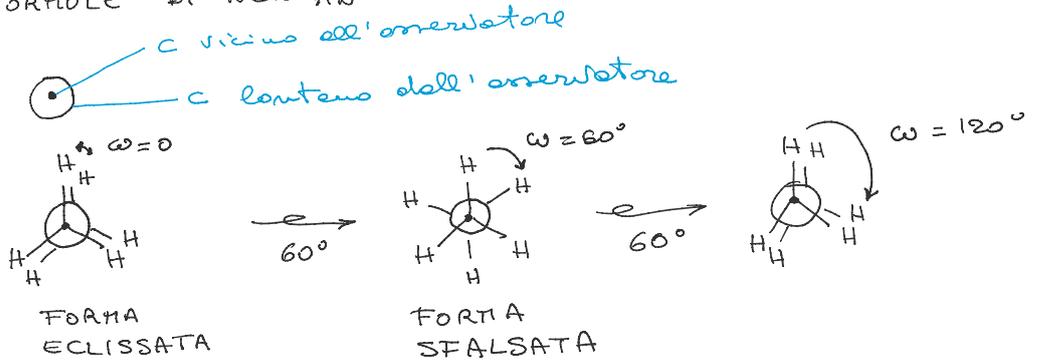
esano
 etile metile esano
 3-etile-2-metile esano





ANALISI CONFORMAZIONALE DELL'ETANO

FORMULE DI NEWMAN



ANALISI CONFORMAZIONALE DEL n-BUTANO

