

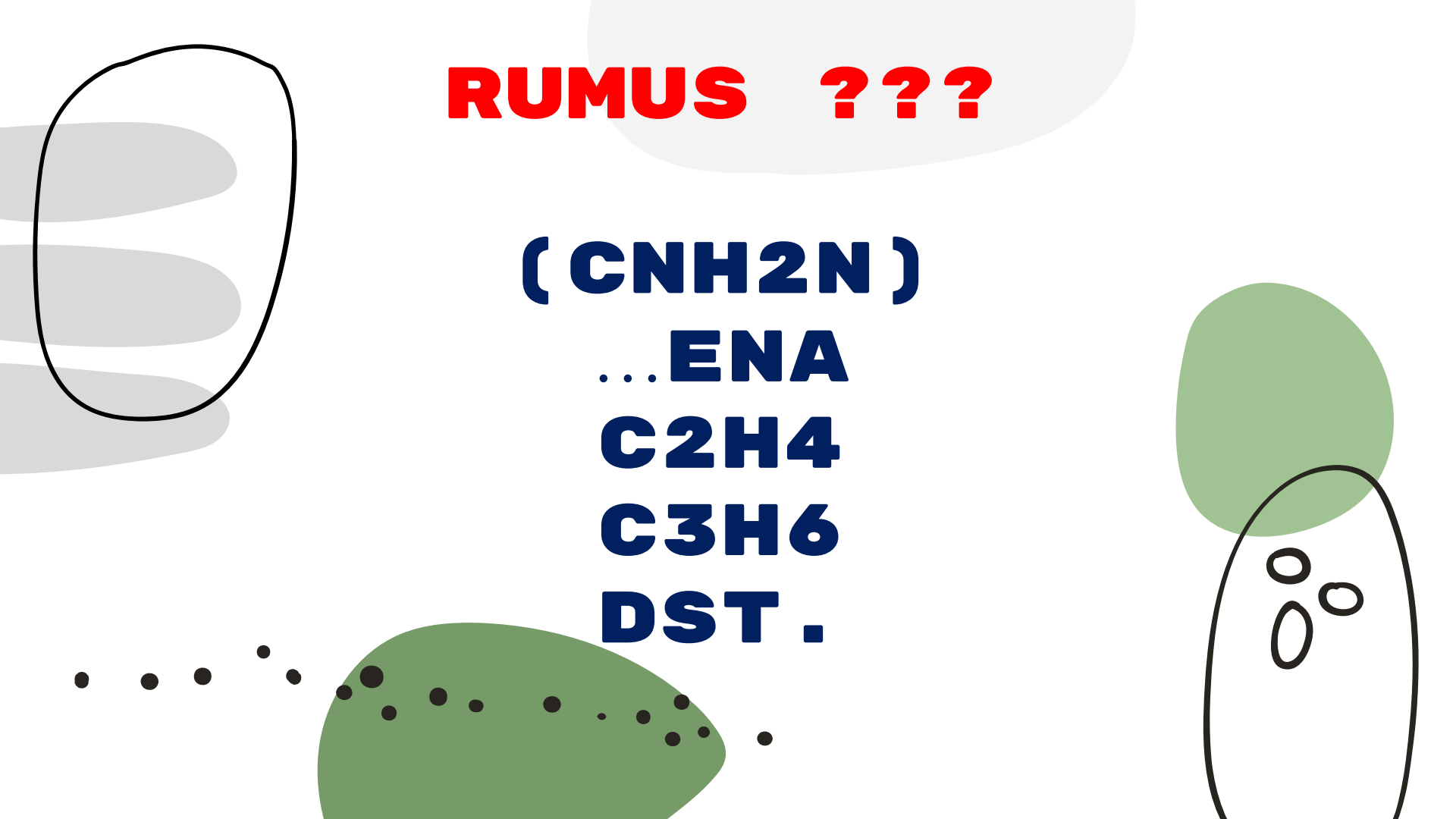


SENYAWA ALKENA

**UNIVERSITAS AN NASHER
FIKES
PRODI SARJANA FARMASI**

ALKENA ?????

**HC ALIFATIK TAK
JENUH, ADA IKATAN
RANGKAP 2 PADA
RANTAI KARBONNYA**



RUMUS ???

(CNH₂N)

...ENA

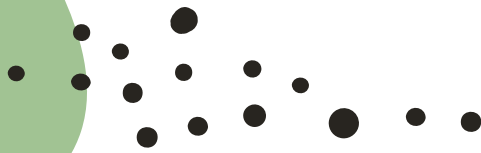
C₂H₄

C₃H₆

DST.



TATA NAMA SENYAWA ALKENA (C_nH_{2n})



- 1. METENA**
- 2. ETENA**
- 3. BUTENA**
- 4. PROPENA**
- 5. PENTENA**



- 6. HEKSENA**
- 7. HEPTENA**
- 8. OKTENA**
- 9. NONENA**
- 10. DEKENA**



STEP, SAMA DG ALKANA, BEDANYAA..

01

**CARI RANTAI INDUK
(PLG PJG)**

Yg paling byk dilalui
cabang

**CARI RANTAI CABANG
(ALKIL)**

**PENOMORAN DIMULAI
DEKAT RANGKAP**

**JIKA CABANG SAMA ->
DIBERI AWALAN 2,3,4,5
(DI, TRI, TETRA, PENTA)**

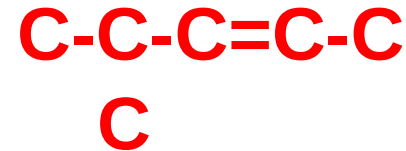
**JIKA CABANG BEDA ->
DIDAHULUKAN URUTAN
ABJAD**

02

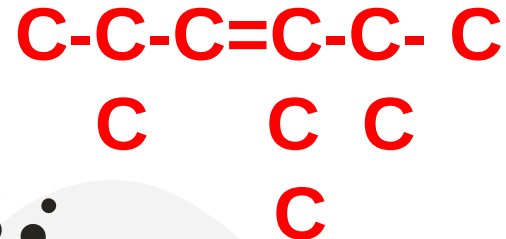
DIMULAI DARI YG DEKAT DG RANGKAP

**JIKA POSISI RANGKAP SAMA, MAKA
DIMULAI DG YG DEKAT CABANG**

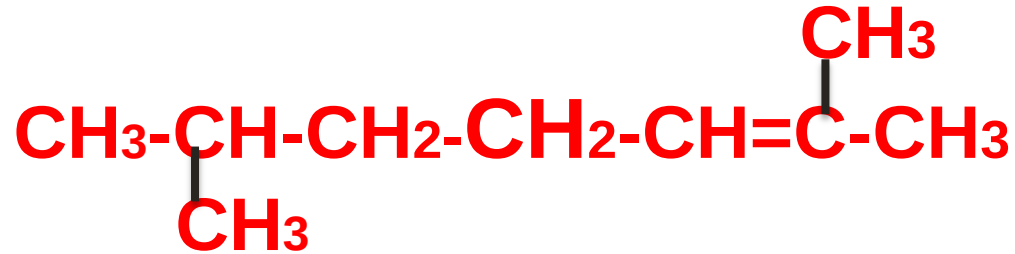
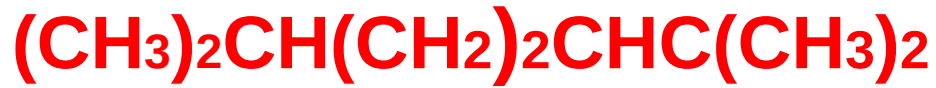
A



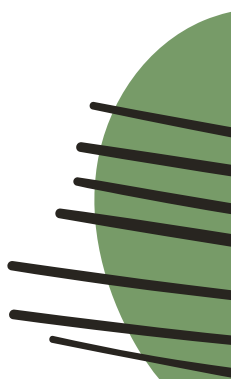
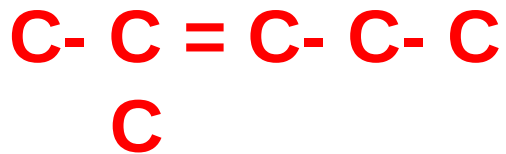
B



C

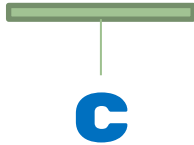


LATIHAN

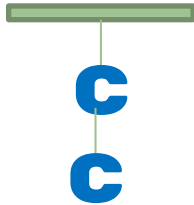


CABANG ALKIL

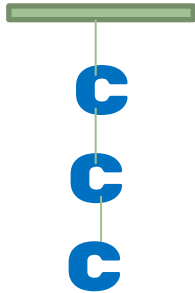
**01
METIL**



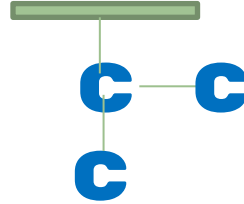
**02
ETIL**



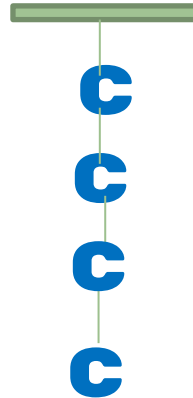
**03
PROPIL**



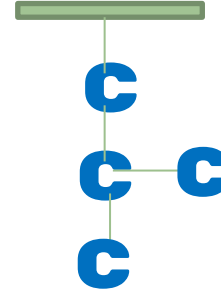
**04
ISOPROPIL**



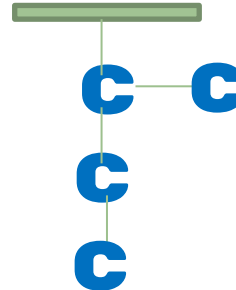
**05
BUTIL**



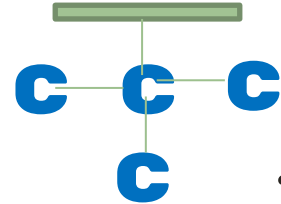
**06
ISOBUTIL**



**07
SEKUNDER
BUTIL**



**08
TERSIER
BUTIL**



ISOMER ALKENA (RUMUS UMUM SAMA, TAPI...

1. RANGKA (**RANGKA BEDA**)
2. POSISI (**BEDA POSISI RANGKAP**)
3. FUNGSI (**BEDA GUGUS FUNGSI**)
4. RUANG/GEOMETRI

1



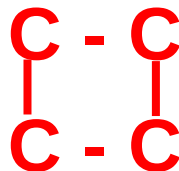
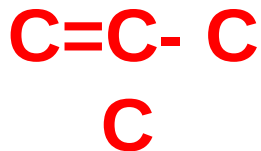
2



3



ALKENA



SIKLOALKANA



ISOMER ALKENA (RUMUS UMUM SAMA, TAPI...

4. RUANG/GEOMETRI

4

CTH 2-BUTENA

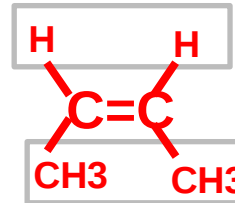
trans -> sama berseberangan

cis -> sama sejajar

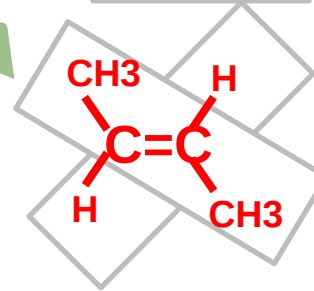
C_4H_8

$C-C=C-C$

Cis-trans -> sama pada c yg beda
Bkn cis-trans -> sama pada C yg sama



cis-2-butena



trans-2-butena

TUGAS!

Berikan nama IUPAC dari senyawa berikut dan jelaskan proses penamaannya:

1. $\text{CH}_3\text{--CH=CH--CH}_2\text{--CH}_3$
2. $\text{CH}_2\text{=CH--CH}_2\text{--CH}_2\text{--CH}_3$
3. $\text{CH}_3\text{--CH(CH}_3\text{)--CH=CH}_2$
4. $\text{CH}_2\text{=CH--CH(CH}_3\text{)--CH}_2\text{--CH}_3$
5. $\text{CH}_2\text{=CH--CH}_2\text{--CH(CH}_3\text{)--CH}_3$
6. $\text{CH}_2\text{=CH--CH=CH--CH}_3$
7. $\text{CH}_2\text{=CH--CH}_2\text{--CH(CH}_3\text{)--CH}_2\text{--CH}_3$
8. $\text{CH}_3\text{--CH=CH--CH(CH}_3\text{)--CH}_3$
9. Berikan nama IUPAC dari senyawa Sikloheksena

TUGASS!

10. Tentukan nama IUPAC C_6H_{10} yg memiliki satu cabang metil dan satu ikatan rangkap.
11. 3-metil-1-butena. Gambarkan strukturnya

Buatlah struktur senyawa berikut:

12. 4-etil-2-heksena.
13. 2,3-metil 4-oktena.
14. 3-etil , 2,2-metil, 1,4-heptadiena
15. 4-butil, 2,8-nonadiena



**Thank
you**

