

The name of molecule is

1. 4 - Dimethyl cyclo hexane.

(b)
$$c_{1/2} - c_{1/3} - c_{1/3}$$

O Find the parents.

Cyclopentane

3) Find the substituents.

M3-4/2-0/2-, 0/3-

(propyl) (methyl).

3) Give the number.

The name of molecules is

1-propyl-3-methyl cyclopentane

or 1-methy-3-propylcyclopentane.

Considered alphe betical prottery priority

1 - methyl - 3-propyl cyclopentane.

Problem 4-1-3

O Find the parents.

Carbon Is 4, Cyclobutane.

(car bun 1s 5, pentane.

The parent Is penfane.

3) Find the substituents.

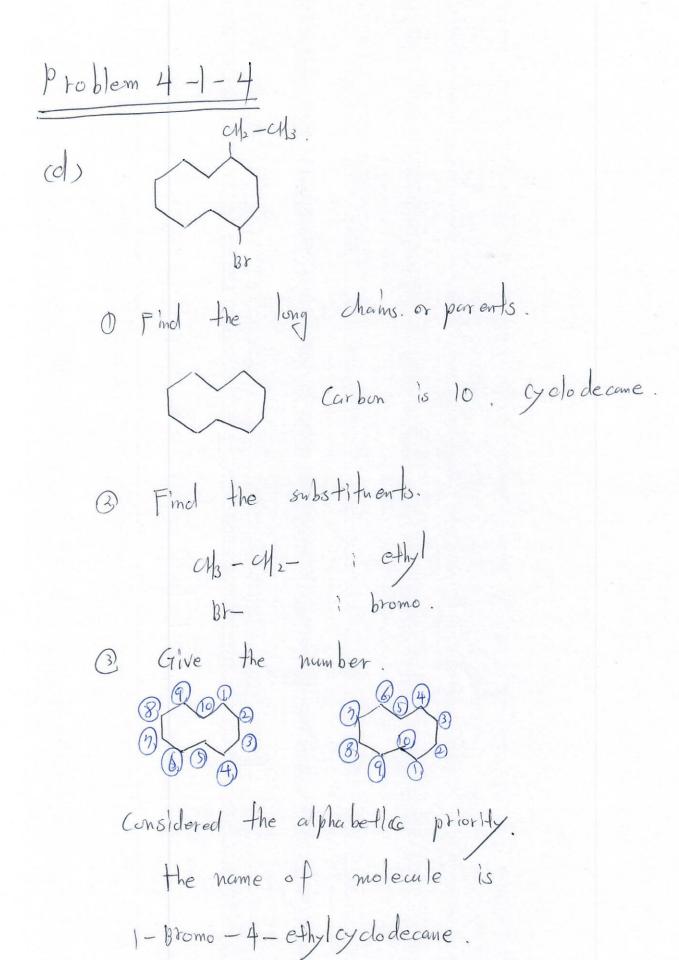
: cyclo butane > cyclobatyl.

3) Give the name number.

3 (T)

The name of molecule is

3 - cyclobatyl pentame.



Problem 4-1-5

- (e) Colly off— colly off— colly off— colly
 - 1) Find the purents.
 - Cyclo hexome.
 - @ Find the substituents

3) Give the number and consider the alpha betic priority

The name of molecule is

Problem 4-1-6

(f)

1) Find the parents.

Carbon 1s 1. Cydo heptane.

3 Find the substituents.

13 r- Bromo.

cys-c-cys tort-butyl

3) Give the number and consider the alphabetic priority

The name of molecule is

4-Bromo - 1-fert-butyl-2-methyl cyclo heptane.

12 toblem 4-2-11 ca) 1,1 - Dimetylcyclooctane. The "cyclooctane" is parent and the structure is The 'methyl' Is cH3-"bi" meoms "2" So the structure is (b) 3- Cyclo buty hexame. posithe substituent. parent

Problem 4-2-2

(C) 1, 2- Di chloro cyclopentame

Substituento parent

postflu. preflx

 \bigcirc c1.

(d) (1.3) - Di bromo (5)- me thyl cyclo hexane

preply substituent substituent parent

Br

043.

Problem 4-4

(4)

O Find the parents

3) Find the substants CH3-, 43- C/-

3) Have stereo somets

(4) Give the number

consider the alphabetical priority.

the name of molecule 1s.

trans -1 - Ohloro -4 - methyl cyclo hexame.

12 toblem 4-4-2.

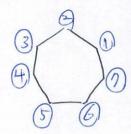
1) Find the parents



2) Find the substituents M3-, M3H2-

3) Have steres (somers

4) Give the number.



Cls - 1 - Ethyl - 3 - methyl cyclo heptane.

Problem 4-5-1

(4) trans-1-Bromo-3-) methyl cyclohexane.

Sereoisomer. I substituents

post-lan

1 Storeo somet.

(b) Cis-1.2- Dimethyl cyclo butane Storeo isomer prefly substituted parent

Problem 4-5-2

storeolsomer.

Substituents

position

Problem 4-9

Cls - 1.2 - Dimetry | cyclo propone

tram -1,2. - bline thy cyclopropane

CH₃

has the sterichindrance

Aleeds the high E

U

Linstable

CV/3.

M-c-H

M

No Stetlchholtonce.

pleet the low E.

Stable.

Problem 4-11 Cis-1,3- Dimethyl cyclohex hus two conformation. The distance between methyl The distance between methyl is close. 18 long high E low E

Stable

uns table