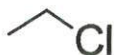


Organic Chem 3514 Alfred State
Notes and Exercise on naming alkyl halides

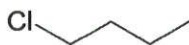
0) Notes:

Common alkyl halide names to know:



Ethyl chloride

chloroethane
IUPAC



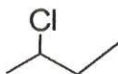
n-butyl chloride

1-chlorobutane
IUPAC



Isopropyl chloride

2-chloropropane
IUPAC



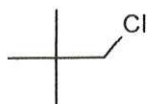
Sec-butyl chloride

2-chlorobutane
IUPAC



Tert-butyl chloride

2-chloro-2-methylpropane
IUPAC

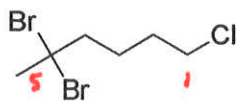


Neopentyl chloride

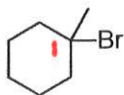
1-chloro-2,2-dimethylpropane
IUPAC

1) Supply the equivalent IUPAC names for the alkyl halides above (see p. 274 rules)

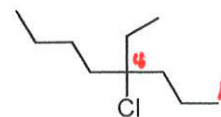
2) Supply IUPAC names to the compounds below:



5,5-dibromo-1-chlorohexane



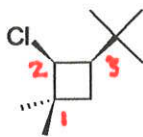
1-bromo-1-methylcyclohexane



4-chloro-4-ethyloctane



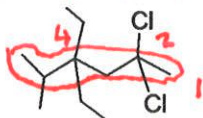
3-bromo-3-(1-methylethyl)-2-methylnonane



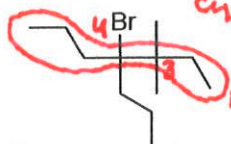
2-chloro-3-(2,2-dimethylethyl)-1,1-dimethylcyclobutane



2-chloro-4-ethyl-8-methylnonane



2,2-dichloro-4,4-diethyl-5-methylhexane



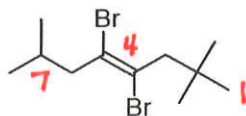
4-bromo-3,3-dimethyl-4-propylheptane



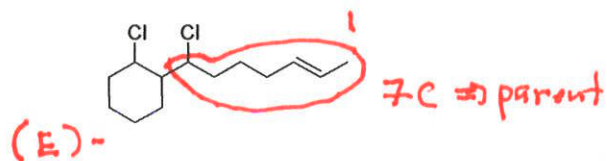
1-chloro-2-(1-methylethyl)-3-fluorocyclohexane



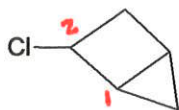
3-chloro-1-methylcyclopentene



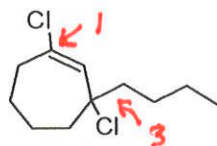
(E)-4,5-dibromo-2,2,7-trimethyl-4-octene
(include E,Z)



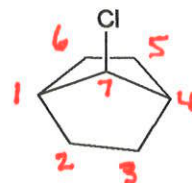
(E)-7-chloro-7-(2-chlorocyclohexyl)-2-heptene
(include E,Z)



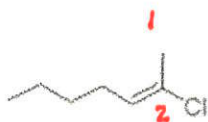
2-chlorobicyclo[2.1.0]pentane



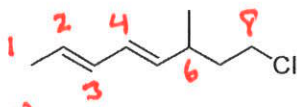
3-butyl-1,3-dichlorocycloheptene



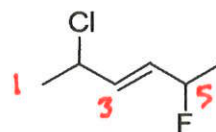
7-chlorobicyclo[2.2.1]heptane



(E)-2-chloro-2-heptene
(include E,Z)



(E,E)-8-chloro-6-methyl-2,4-octadiene
(include E,Z)



(E)-2-chloro-5-fluoro-3-hexene
(include E,Z)