in-class exercise #8 answers

1) CC14 CHCl3 CH2CI2 CCI3F CF2C12

tetrachloromethane trichloromethane dichloromethane trichlorofluoromethane chlorodifluoromethane

 **C**

 |

 **C-C-C C-C-C-I** Br-C-C-C-C C-C-C-C

 | | |

 Cl C F

2)

common tertbutyl chloride isobutyl iodide n-butyl bromide sec-butyl fluoride

functional 1,1-dimethylethyl chloride 2-methylpropyl iodide butyl bromide 1-methylpropyl fluoride

substitutive 2-chloro-2-methylpropane 1-iodo-2-methylpropane 1-bromobutane 2-fluorobutane

3)

 FUNCTIONAL SUBSTITUTIVE (std IUPAC)



 1-ethyl-4-methylpentyl fluoride 5-fluoro-2-methylheptane





 1,4-dimethylhexyl fluoride 2-fluoro-5-methylheptane (halogens and R are equal in rank…go for minimum count to substituent )

 2-ethylcyclohexyl fluoride 1-ethyl-2-fluorocyclohexane (number with lowest # for substituent first occurring in alphabet)

 2-ethylcyclohexyl bromide 1-bromo-2-ethylcyclohexane

