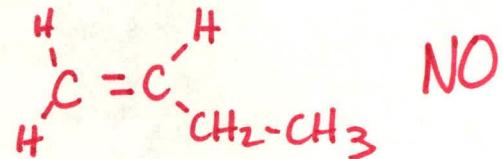
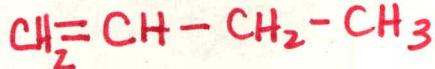


KEY

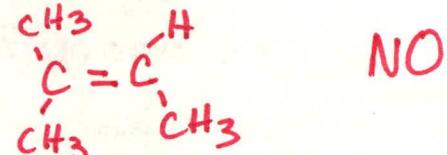
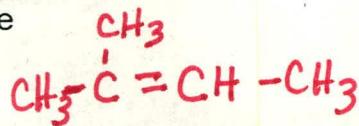
1. In each case, decide whether cis-trans isomers exist:

a. 1-butene



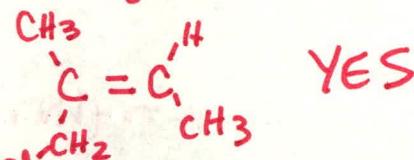
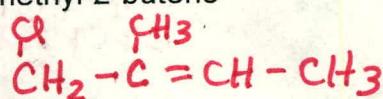
NO

b. 2-methyl-2-butene



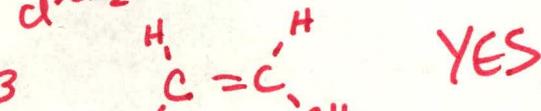
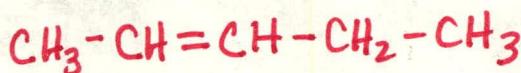
NO

c. 1-chloro-2-methyl-2-butene



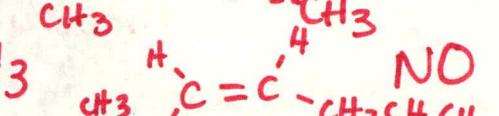
YES

d. 2-pentene



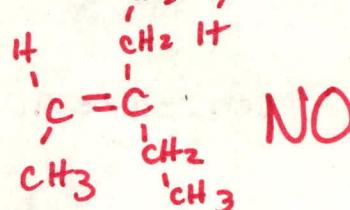
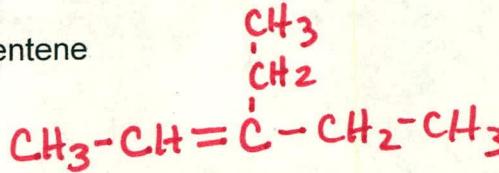
YES

e. 1-pentene



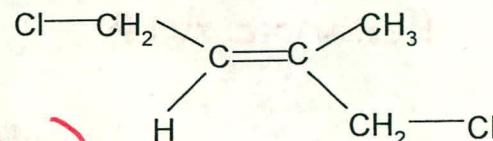
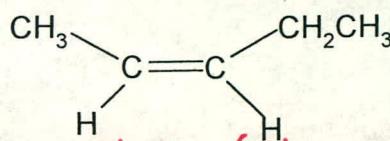
NO

f. 3-ethyl-2-pentene



NO

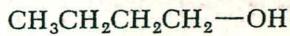
2. Name the following cis or trans isomers:



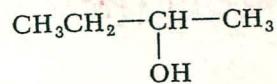
cis-2-pentene (cis-pent-2-ene)

trans-1,4-dichloro-2-methylbut-2-ene

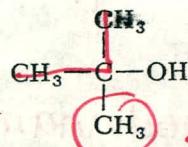
3. Give the IUPAC name for the following :



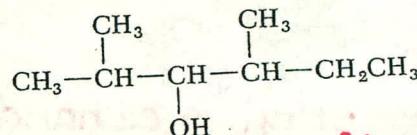
butan-1-ol



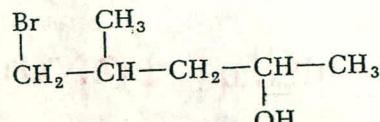
butan-2-ol



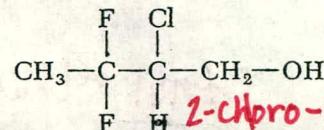
2-methylpropan-2-ol



2,4-dimethylhexan-3-ol

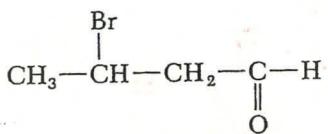


5-bromo-4-methylpentan-2-ol

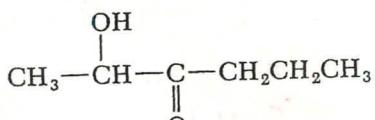


2-chloro-3,3-difluorobutan-1-ol

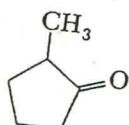
3. Continued - Give the IUPAC name for the following :



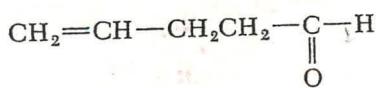
3-bromobutanal



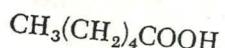
2-hydroxyhexan-3-one



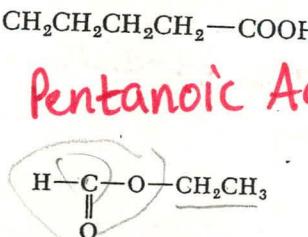
2-methylcyclopentanone



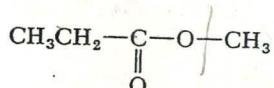
pent-4-enal



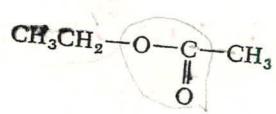
Hexanoic Acid



ethyl methanoate



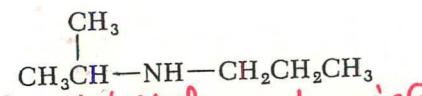
methyl propanoate



ethyl ethanoate



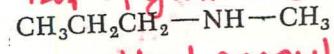
ethylamine



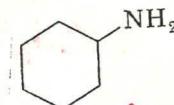
1-methylethyl propyl amine



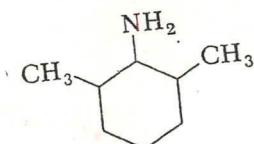
isopropylamine



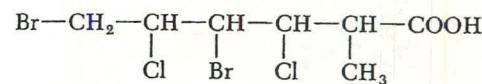
methyl propyl amine



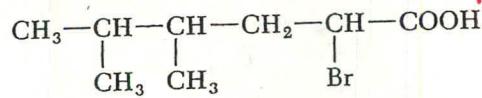
cyclohexylamine
or 1-amino cyclohexane



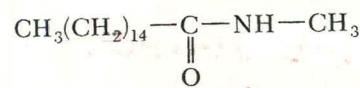
1-amino-2,6-dimethylcyclohexane



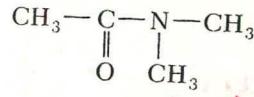
4,6-dibromo-3,5-dichloro-2-methylhexanoic acid



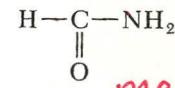
2-bromo-4,5-dimethylhexanoic acid



N-methyl lauroylamide



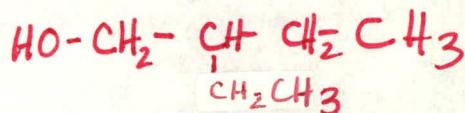
N,N-dimethyl ethanamide



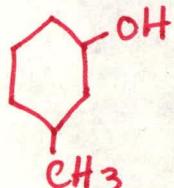
methanamide

4. Draw the following:

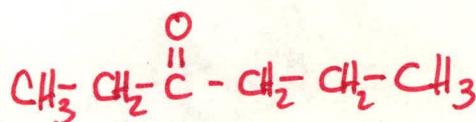
2-ethylbutan-1-ol



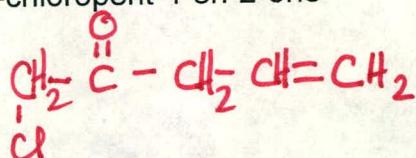
3-methylcyclohexanol



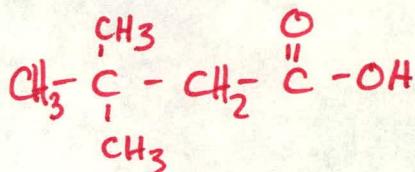
Hexan-3-one



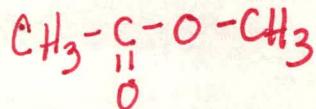
1-chloropent-4-en-2-one



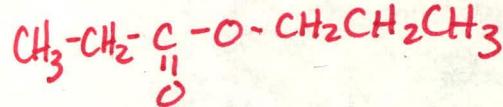
2,2-dimethylbutanoic acid



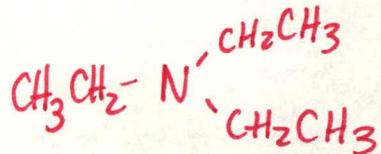
Methyl acetate



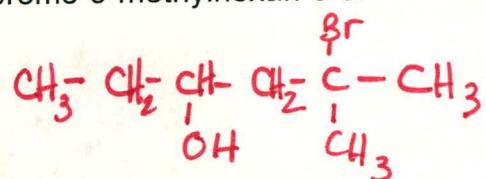
Propyl propionate



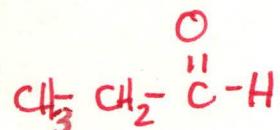
Triethylamine



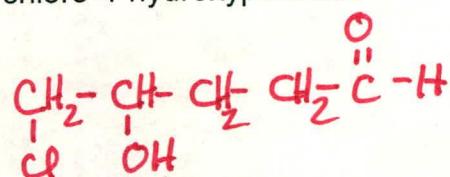
5-bromo-5-methylhexan-3-ol



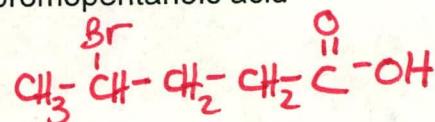
propanal



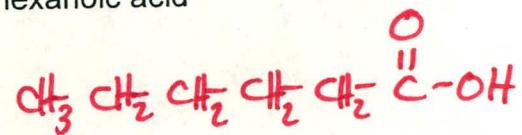
5-chloro-4-hydroxypentanal



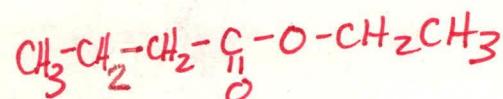
4-bromopentanoic acid



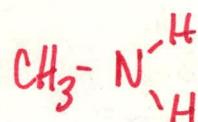
hexanoic acid



ethyl butyrate



methylamine



ethanoic acid

