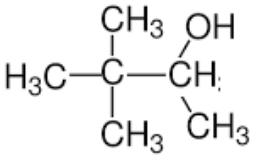
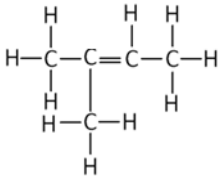
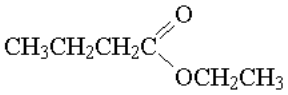
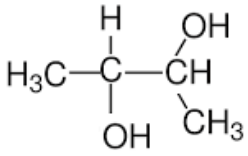
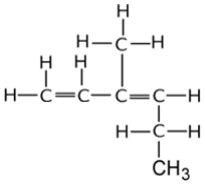
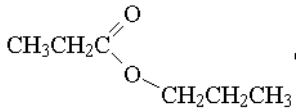
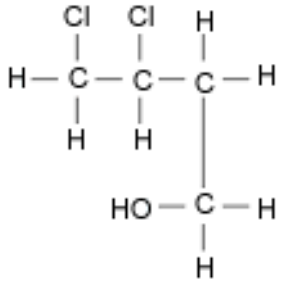
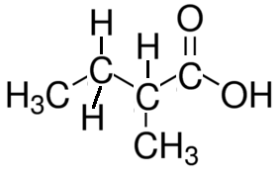
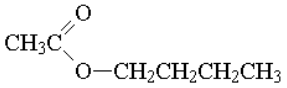
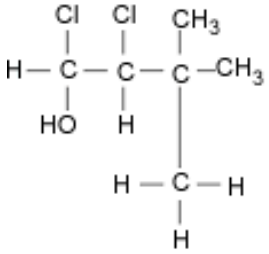
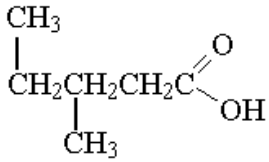
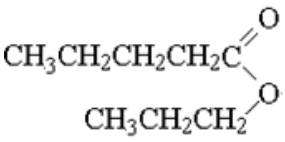
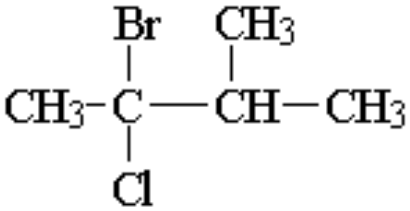
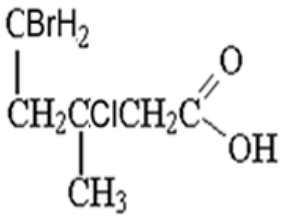
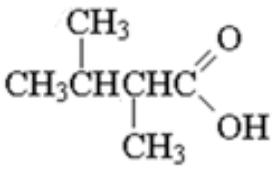
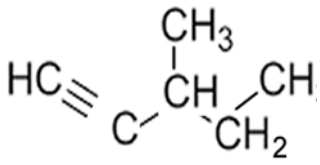
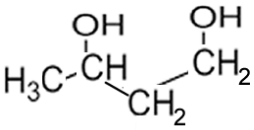
Naming organic molecules

3,3-dimethylbutan-2-ol 	2-methylbut-2-ene 	Ethyl butanoate 
Butan-2,3-diol 	3-methylhex-1,3-diene 	Propyl propanoate 
3,2-dichlorobutan-1-ol 	2-methylbutanoic acid 	Butyl ethanoate 
1,2-dichloro-3,3-methylbutan-1-ol 	3-methylpentanoic acid 	Propyl pentanoate 
2-bromo-2-chloro-3-methylbutane 	5-bromo-3-chloro-3-methylpentanoic acid 	2,3-dimethylbutanoic acid 

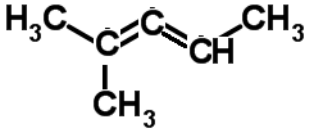
3-methylpent-1-yne



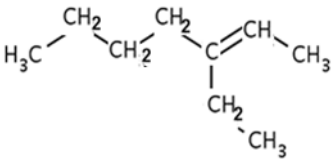
Butan-1,3-diol



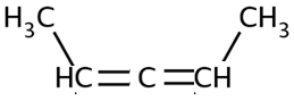
2-methylpent-2,3-diene



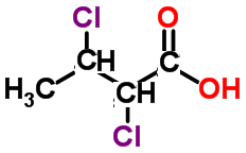
3-ethylhept-2-ene



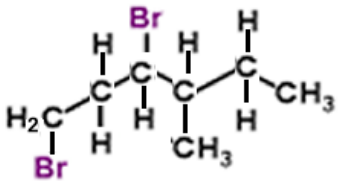
Pent-2,3-diene



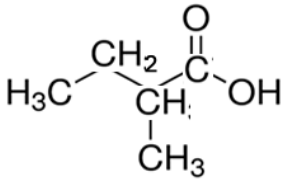
2,3-dichlorobutanoic acid



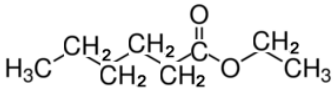
1,3-dibromo-4-methylhexane



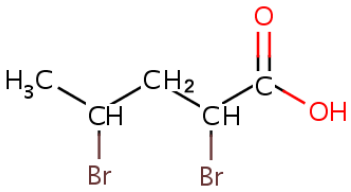
2-methylbutanoic acid



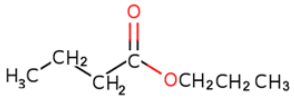
ethyl hexanoate



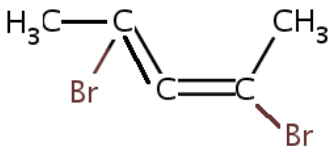
2,4-dibromopentanoic acid



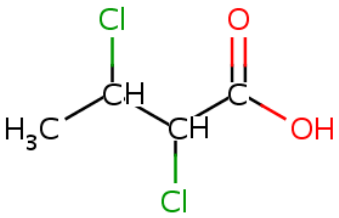
Propyl butanoate



2,4-dibromopent-2,3-diene

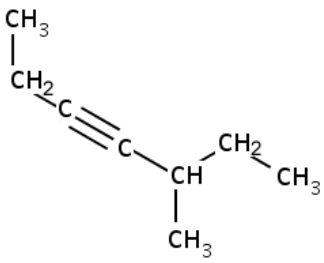


2,3-dichlorobutanoic acid



2,4-dichlorohexan-2-ol

5-methylhept-3-yne



1) Correct the following names by rewriting them in the correct format.

i. The compound 1-2,dibromo ethane

1,2-dibromoethane

ii. The ester called Hexanol butanoic

Hexyl butanoate

iii. The compound 3-ethylpropan-1-ol

Pentan-1-ol

iv. The compound called 4-methylbutan-2-ol

Pentan-2-ol

v. An ester written as metholbutyric

Methyl butanoate

vi. A compound named 3,4-dimethylpentan-1-ol

3,4-dimethylpentan-1-ol

vii. An alkene called prop-2-ene

Propene

viii. An alkene called but-4-ene

Bute-1-ene

ix. The carboxylic acid 1-pentanoic acid

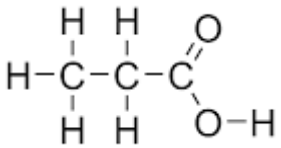
Pentanoic acid

x. The compound propan-3-ol

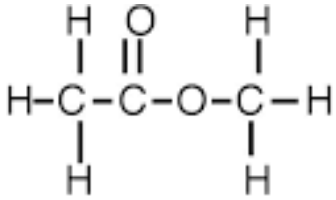
Propan-1-ol

2) Draw the structural formula and name two isomers with the molecular formula $C_3H_6O_2$

Propanoic acid



Methyl ethanoate



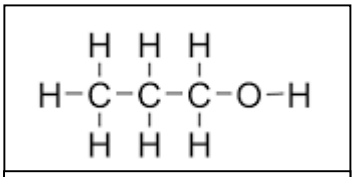
3) Below are the structural formulae of a select number of molecules. Name:

- the functional group present
- the homologous group to which they belong
- the next compound in the series

a) Functional group _____hydroxy (OH)_____

b) Homologous series _____alcohols____

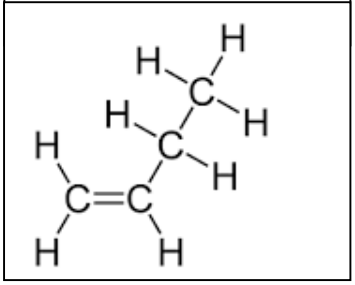
c) Next molecule in the series ___butanol_____



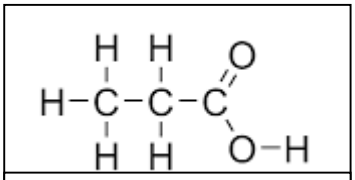
a) Functional group _____C=C_____

b) Homologous series ___Alkenes_____

c) Next molecule in the series __Pentene_____



a) Functional group ___Carboxy (COOH)__
b) Homologous series _Carboxylic acids____
c) Next molecule in the series ___Butanoic acid____



a) Functional group Carbon to carbon triple bond
b) Homologous series ____Alkynes____
c) Next molecule in the series ____Butyne_____