

12/6/2021

Naming Hydrocarbons W.S

1. octane ✓
2. 2,5-dimethyloctane ✓
3. 5,5-dimethylheptane x double bond
5,5-dimethylhept-3-ene
4. 1,3-diethylcyclopentane ✓
5. non-4-ene ✓
6. cyclopropane ✓
7. 3-ethyloct-6-yne x start numbering from end closest to the triple bond
6-ethyloct-2-yne
8. 3-methylhexane ✓
9. 4-ethyl-2,3-dimethylheptane ✓
10. 5-ethyl-2,4,6-trimethyloctane ✓
11. 3,4-diethylhex-2-ene x double bond means -ene not -ane
12. cyclobutene ✓
13. benzene ✓
14. 2,7,8-trimethyldecane ✓
15. hex-2-ene ✓
16. 3,3-diethylpentane ✓
17. 3-ethyl-2-methylpentane ✓

12/7/2021

Nomenclature: Alkenes & Alkynes w.s

1. a) 2-methylbut-2-ene ✓

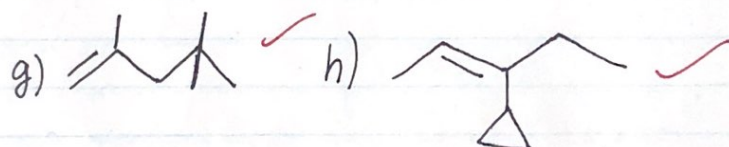
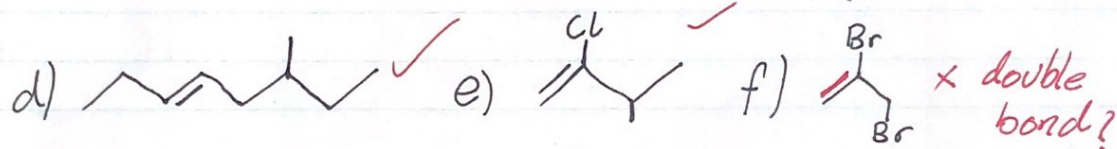
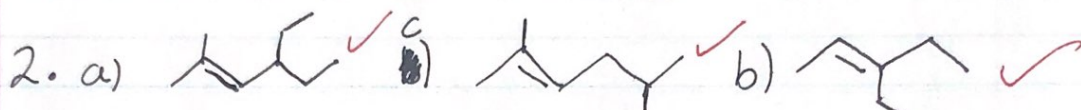
b) 5-cyclopropyl-2-methylhept-3-ene ✓

c) 6-ethyl-5,6-difluoro-3-methyloct-2-ene x

d) 3-amino-5-propylcyclohexene ✓

e) 5-methyl-2,3-nitrohept-3-ene x see rules for haloalkanes
3-chloro-5-iodohex-2-ene

f) 3-chloro-5-iodohex-2-ene



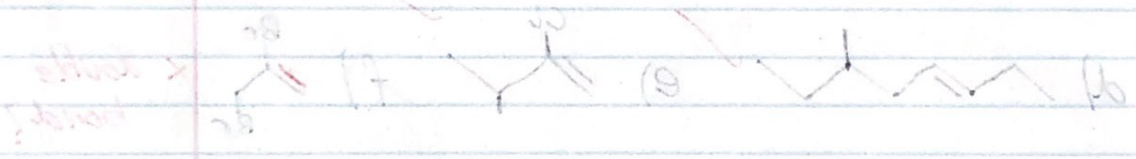
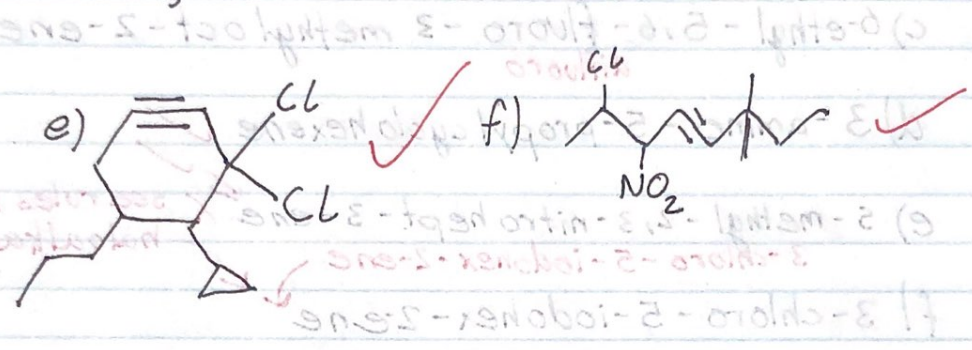
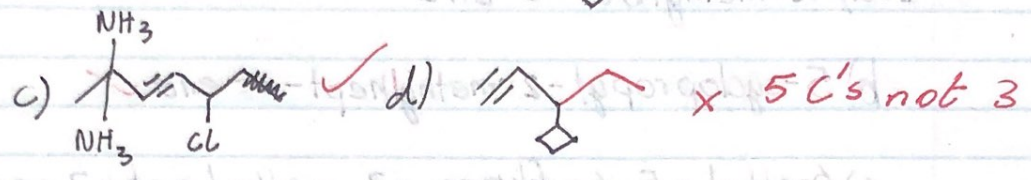
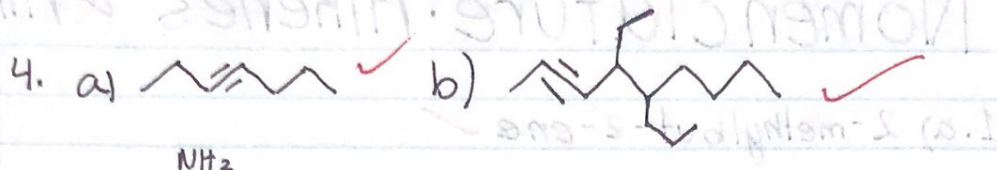
3. a) 4-ethylhex-2-ene x triple bond
-yne

b) 6-cyclopropane-2-nitro-oct-4-yne x
propyl no space

c) 2,3,3-tribromo-6-butyl-8-methyldec-4-yne ✓

d) 5,5-dichlorocyclohept-1-yne x
4,4

Nomenclature: Alkenes & Alkynes W.2



3. a) 4-ethyl-1-hex-5-ene & triple bond

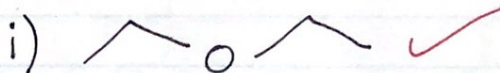
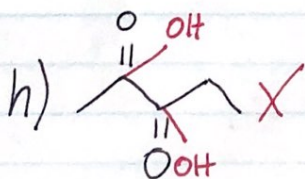
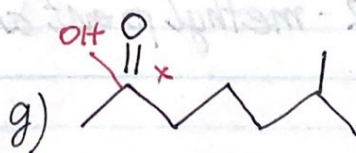
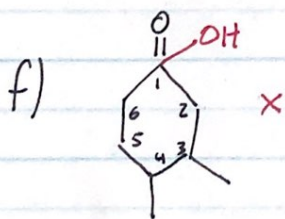
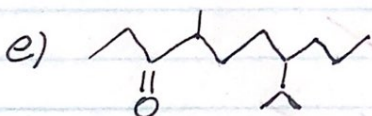
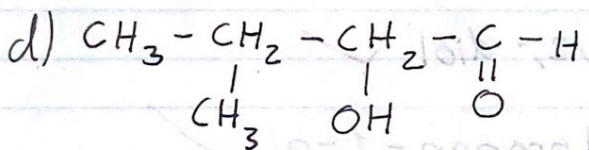
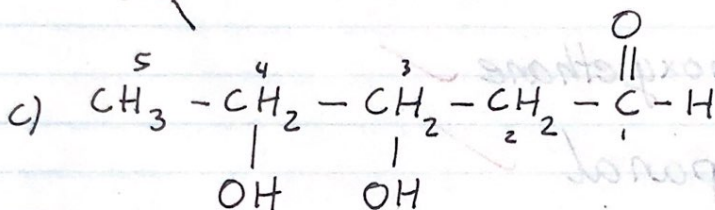
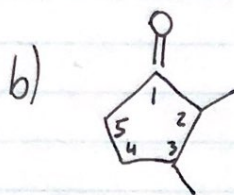
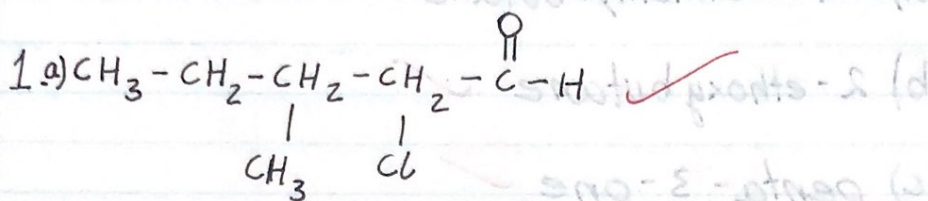
b) 4-cyclopropyl-5-nitro-1-oct-4-ene

c) 2,3,5-tribromo-6-butyl-8-methyldec-4-ene

d) 2,2-dichlorocyclohept-1-ene

12/10/2021

Alcohols, Aldehydes, Ethers & Ketones WS



2. a) 2,2-dimethylbutane ✓

b) 2-ethoxybutane ✓

c) penta-3-one ✓

d) butan-2-one ✓

e) but-2-ene ✓

f) methoxyethane ✓

g) propanal ✓

h) butan-2-ol ✓

i) ethane-1,2-diol ✓

j) 2-methylpropan-1-ol ✓

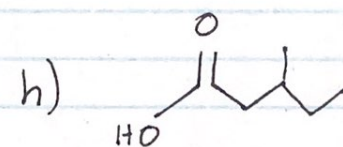
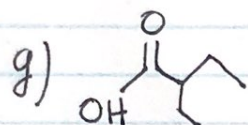
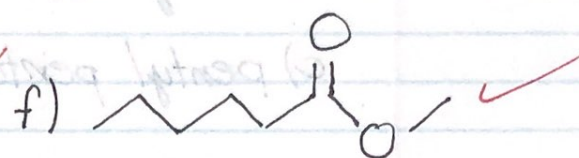
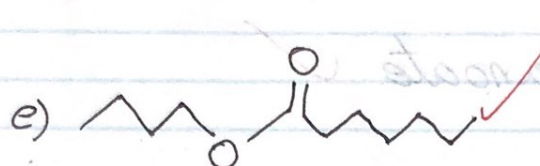
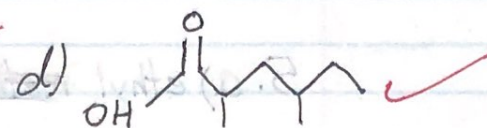
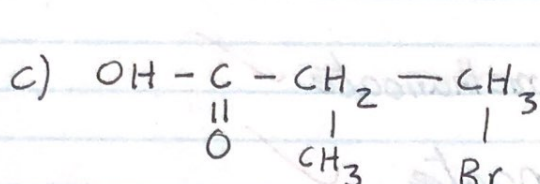
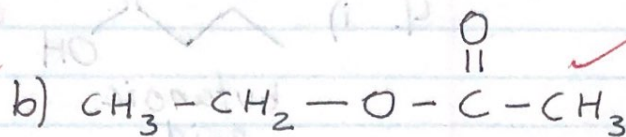
k) butan-2-one ✓

l) 2-methylpentanal ✓

1/5/2022

W.S

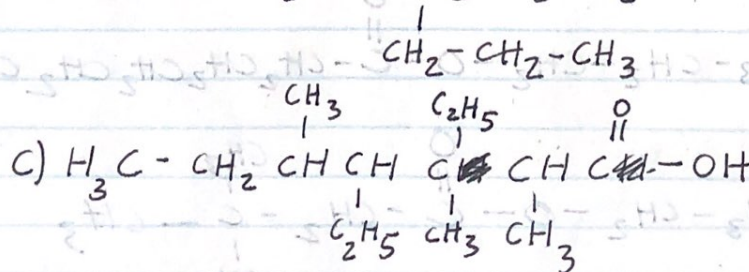
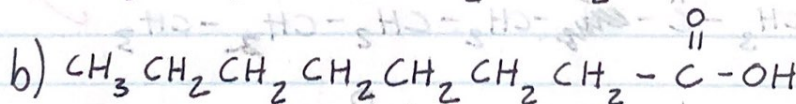
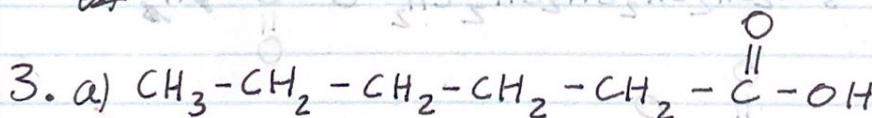
Carboxylic Acids & Esters

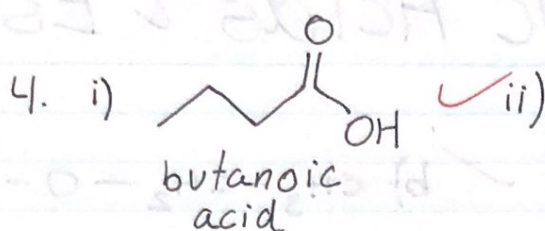


2. a) propanoic acid

b) 2,2-dimethylbutanoic acid

c) 4,5-dimethyl-2-ethylhexanoic acid
ethyl before methyl






5. a) ethyl ~~methoxy~~ methanoate ✓

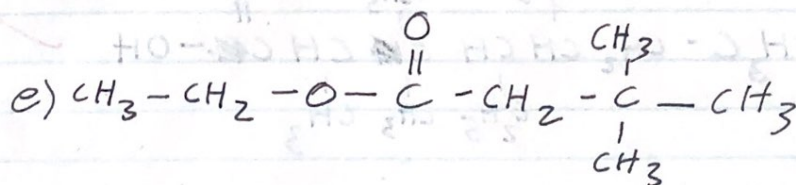
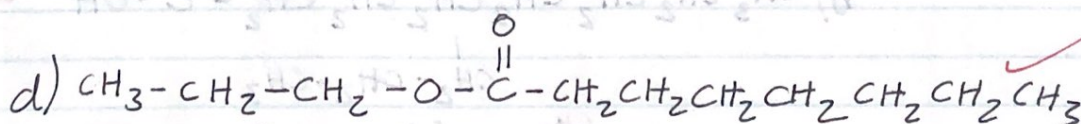
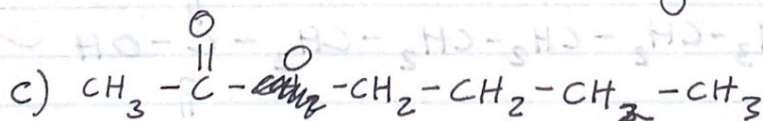
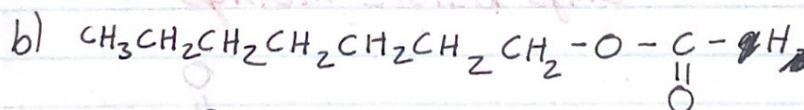
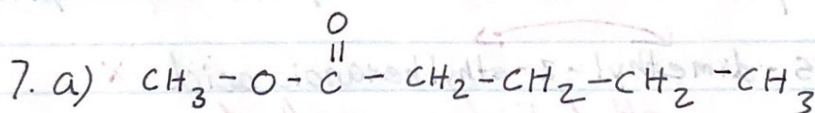
b) methyl butanoate ✓

c) pentyl pentanoate ✓

6. a) 

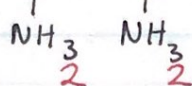
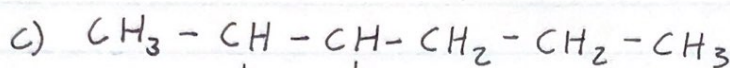
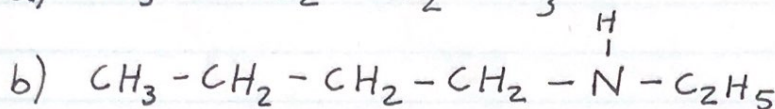
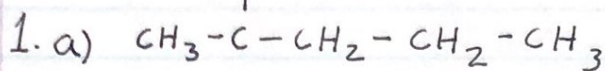
b) 

c) 

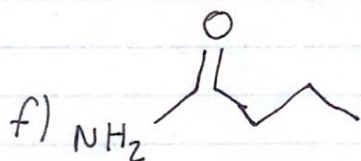
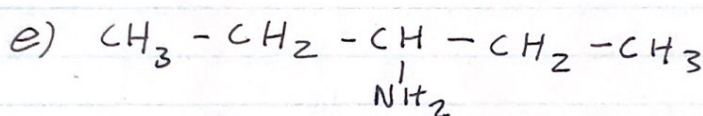
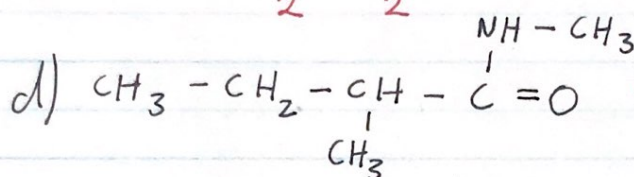


1/6/2022

Amines and Amides W.S



N has 3 bonds available



2. a) N-ethyl-N-methyl ethanamine ✓

b) ~~N-methyl-ethyl~~ N-methyl-ethanamine ✓
no space

c) butanamide ✓

d) heptanamide ✓

e) 2-amino ethanol ✓