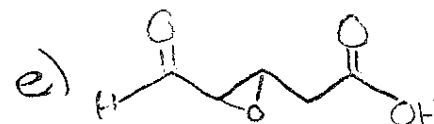
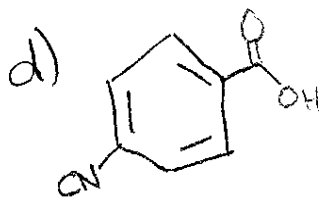
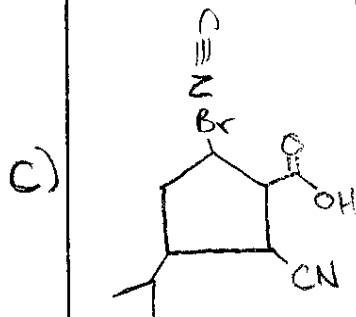
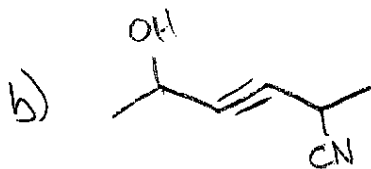
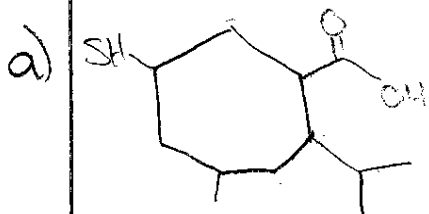


Ema Ashley - F
Jasiel Duarte - W
Cayce Douthitt W
Julie Peterson W
Jessica Kenyon F

+ Protons

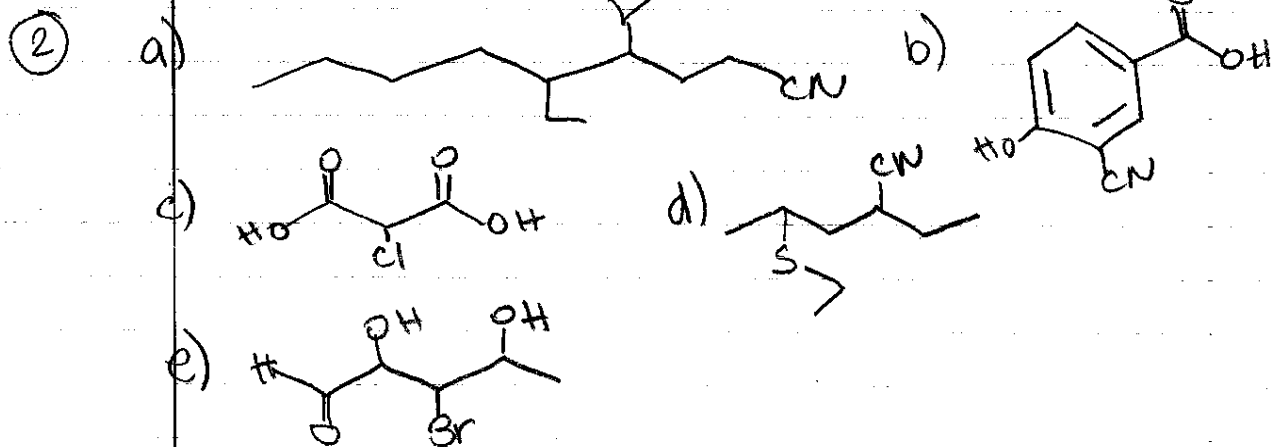


- 2
- a) 4-Isopropyl-5-ethyl nonanenitrile
 - b) 3-Cyano-4-hydroxy benzoic acid
 - c) 2-Chloro-propanedioic acid
 - d) 2-Ethyl-5-ethylthiopentane nitrile
 - e) 3-Bromo-2,4-dihydroxypentanal

- 3
- a) prepare pentane nitrile from pentanol
 - b) prepare butyl pentyl ether from pentane nitrile
 - c) prepare butanol from 3-Bromopropane

+ Protons

- ①
- a) 4-cyano-2-isopropyl-6-mercaptocycloheptane carboxylic acid.
 - b) 5-hydroxy-2-methyl-3-hexyne nitrile
 - c) 2-Bromo-5-cyano-4-isopropyl cyclopentane carboxylic acid
 - d) p-cyanobenzoic acid
 - e) 3,4-epoxy-5-oxopentane carboxylic acid



Answers for Prep + Protons

