Organic Chemistry I, CHM 3140 Dr. Laurie S. Starkey, Cal Poly Pomona Chapter I Canaral Chamistry Poviny P

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Chapter 1 General Chemistry Review, Part 2 – Practice Problems

Add in any missing formal charges on the following Lewis structure (all electrons are shown). What is the NET (overall) charge?

Identify the type of bonding present (covalent, ionic, or both).

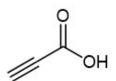
- 2 H₂SO₄
- 3 CH₃CO₂Li

Draw a complete Lewis structure for each:

4 NaCN

5 NH₄OCH₃

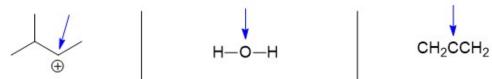




Number of pi bonds

Number of sigma bonds _____

- 7
- Identify the hybridization for each of the following indicated atoms.







8 Describe the hybridization and geometry about the bolded atom for each.

 CH_3NH_2

a) linear b) bent

c) tetrahedral

d) trigonal planar

e) pyramidal

CH₃OH

CH₃OCH₃

CH₃CCH

Provide a 3D sketch of the given compound. 9

CH3CH2CH2CH2CH2OH