

Quiz 4.2 – Molecular Geometry and Polarity

Name: Key

Question 1

Indicate which element in each pair has the greater electronegativity

C -or- N

Cl -or- F

O -or- S

Na -or- Mg

Ca -or- Sr

P -or- O

Question 2

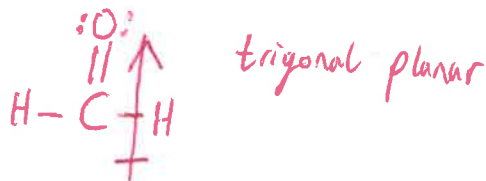
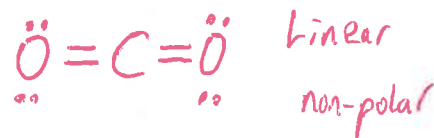
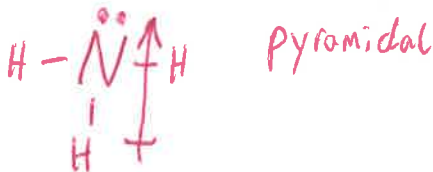
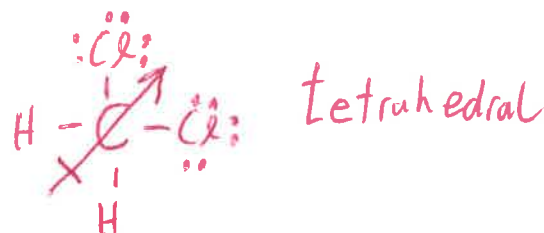
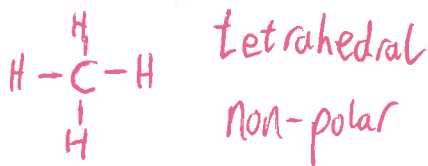
For each bond, draw an arrow indicating the direction of the bond polarity

O-H
←→N≡N
NoneBr-Cl
→C-H
NoneC=O
→N≡C
←→O=O
None

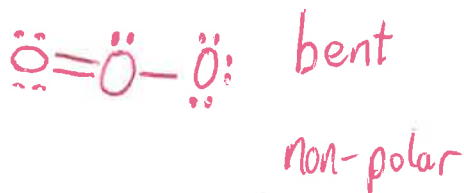
Question 3

For each compound, do the following:

- Draw a valid Lewis Structure
- Give the molecular geometry
- Indicate the direction of the molecular dipole (if any)

CH₂OCO₂NH₃CH₂Cl₂CH₄

HCN

O₃CO₃²⁻