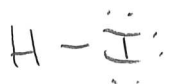


Name _____ Date _____ Period _____

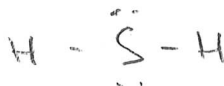
Draw Lewis Dash Structures for the following compounds and polyatomic ions. Show your calculation for total valence electron pairs. Identify the molecular geometry. For each molecule determine polarity.

HI 8 ve⁻



Linear
Polar

H₂S 8 ve⁻



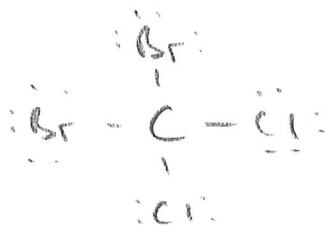
Bent
Polar

PH₃ 8 ve⁻



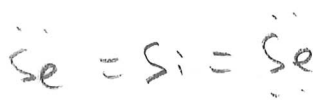
Trig Pyramidal
Polar

CB₂Cl₂ 32 ve⁻



Tetrahedral
Polar

SiSe₂ 16 ve⁻



Linear
Nonpolar

CO 10 ve⁻



Linear
polar

CO₂ 16 ve⁻



Linear
Nonpolar

(CO₃)²⁻ 24 ve⁻



* two other
resonance
structures

Trig Planer
Nonpolar

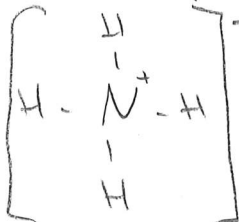
(PO₄)³⁻ 32 ve⁻



* three
other resonance
structures

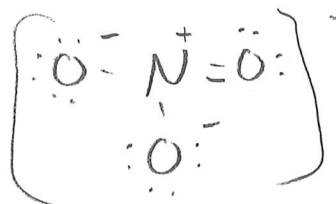
Tetrahedral
Nonpolar

(NH₄)⁺ 8 ve⁻



tetrahedral
Nonpolar

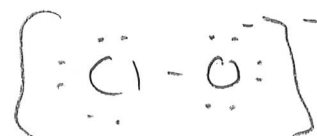
(NO₃)⁻ 24 ve⁻



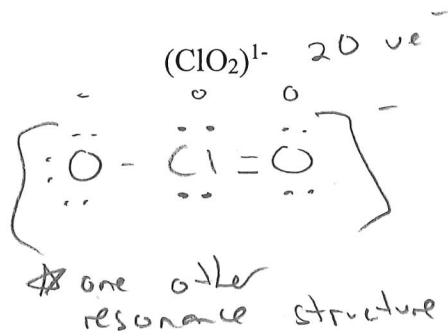
* two other
resonance structures

trig planer
nonpolar

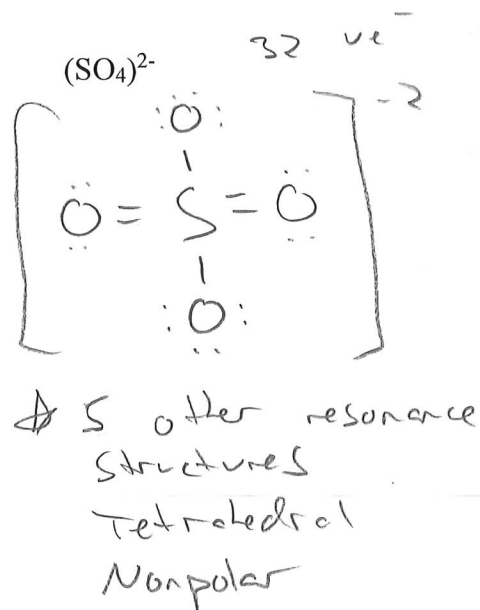
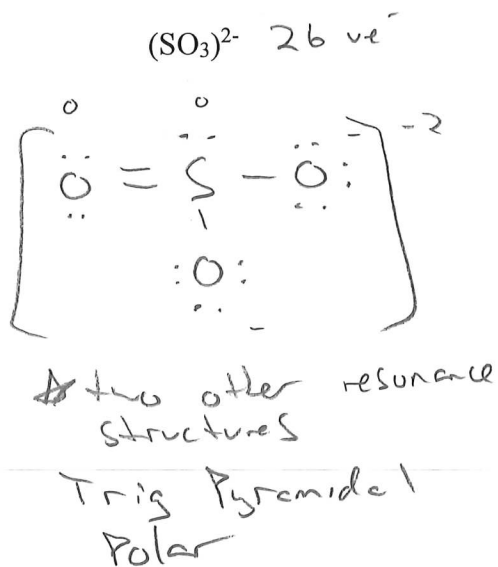
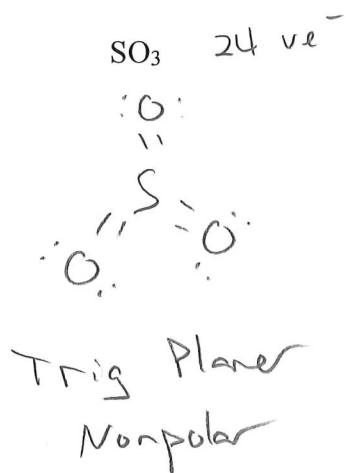
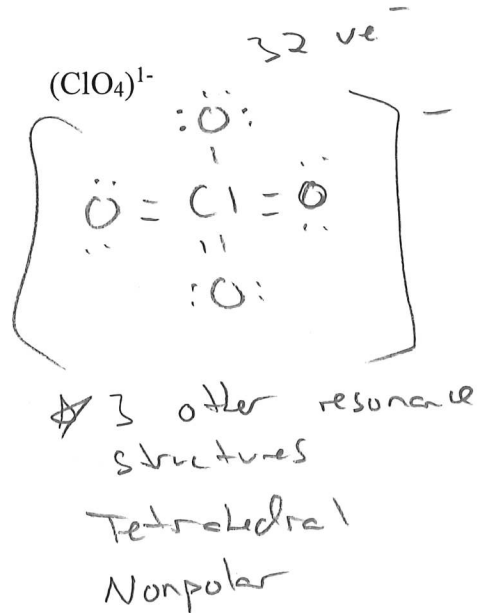
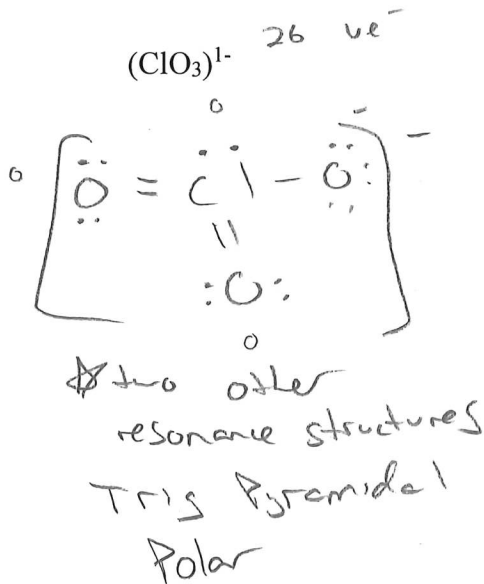
(ClO)⁻ 14 ve⁻



Linear
polar

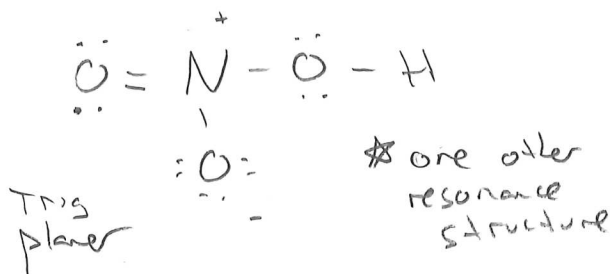


Bent
Polar

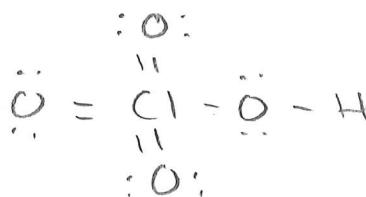


Draw structures for the following acids:
(all polar)

HNO_3

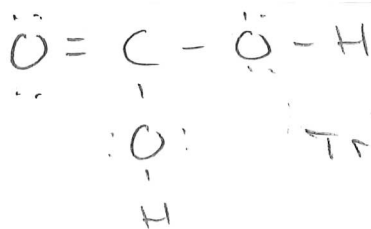


HClO_4



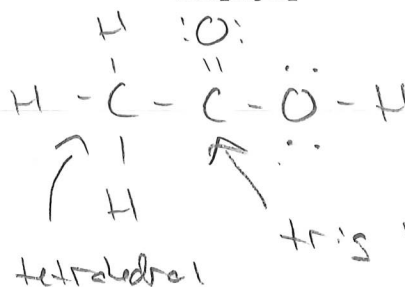
Tetrahedral

H_2CO_3



Trig Planar

$\text{HC}_2\text{H}_3\text{O}_2$



trig planar