

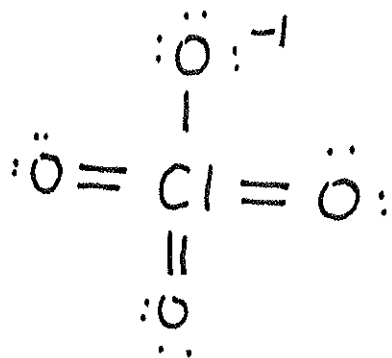
HomeWork 21

Due Friday 5 December

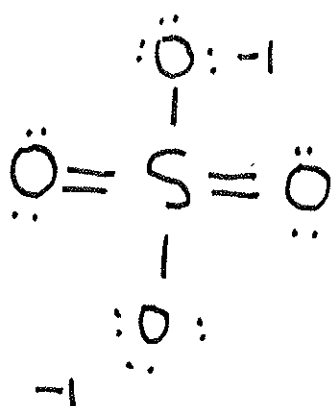
Your name: Ansures _____/10

1) Draw the best Lewis structure for the species below assuming the minimum formal charge rule is in force: (2 pts each/6 pts total)

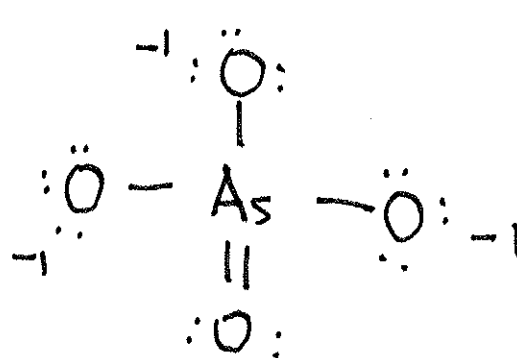
a) ClO_4^{-1}



b) SO_4^{2-}



AsO_4^{3-}



2) What is the bond order for each of the compounds above?

a) 1.75
 $\frac{7}{4}$

b) 1.50
bond order $\frac{6}{4}$

c) 1.25
 $\frac{5}{4}$

3) Resonance occurs in: (circle your choice)

i) just a

ii) just b

iii) just c

iv) a and b

v) b and c

vi) a and c

vii) a, b and c