

37 =

2

Name: _____

SCH 3U Bonding Quiz

1. For each of the following:
- determine the type of bonding (ionic vs covalent) and clearly state to the left of the atoms
 - do the rough work
 - show the results (draw good answer diagrams)
 - add the details

Ca Br

5

P Cl

5

C O

5

H O

5

20

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-

ionic

⇒

$$\begin{aligned} \Delta EN &= 2.96 - 1.00 \\ &= 1.96 \end{aligned}$$

5

covalent

$$\begin{aligned} \Delta EN &= 3.16 - 2.19 \\ &= 0.97 \end{aligned}$$

5

covalent

$$\begin{aligned} \Delta EN &= 3.44 - 2.55 \\ &= 0.89 \end{aligned}$$

5

covalent

$$\begin{aligned} \Delta EN &= 3.44 - 2.20 \\ &= 1.24 \end{aligned}$$

5

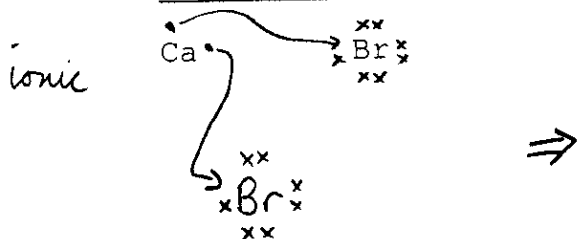
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37 = 2

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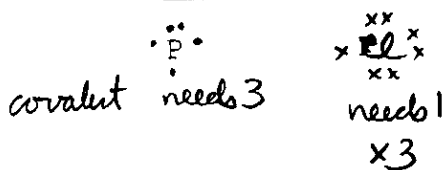
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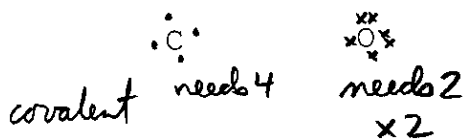
$$\Delta EN = 2.96 - 1.00 = 1.96$$

5



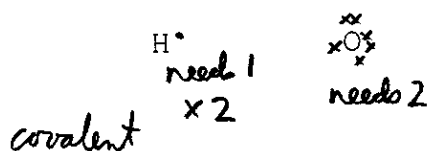
$$\Delta EN = 3.16 - 2.19 = 0.97$$

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$$\Delta EN = 3.44 - 2.20 = 1.24$$

5

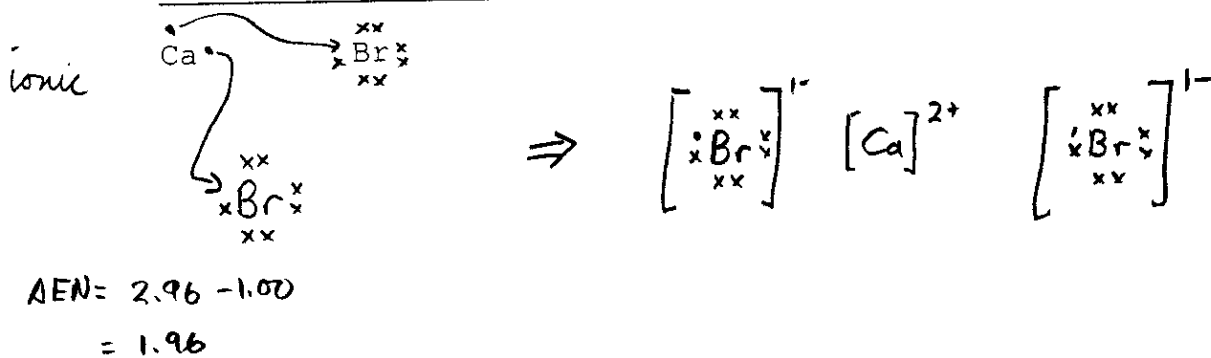
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37 = %

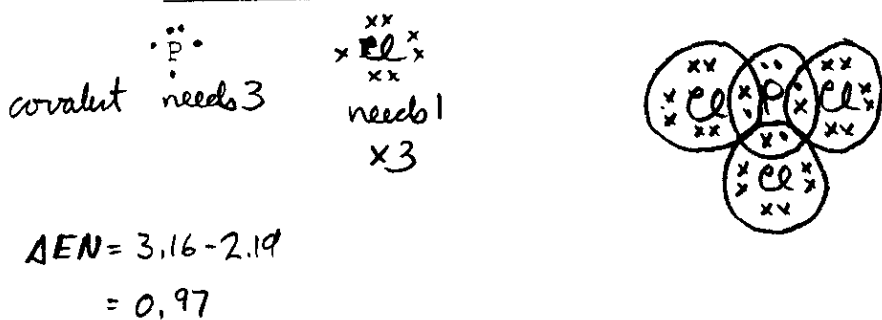
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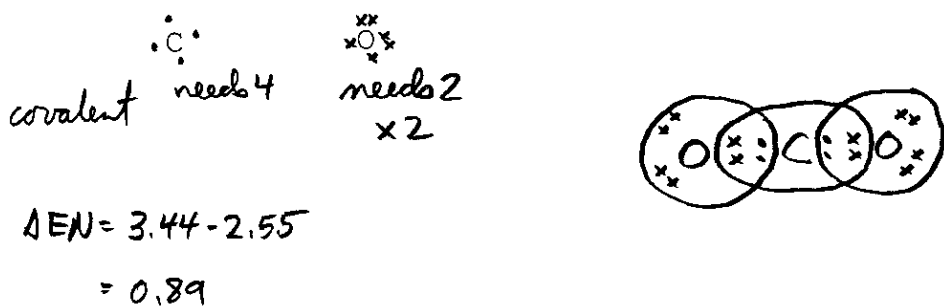
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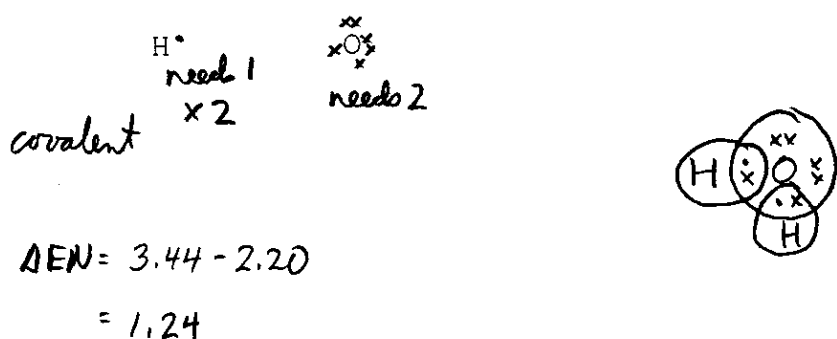
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5



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5

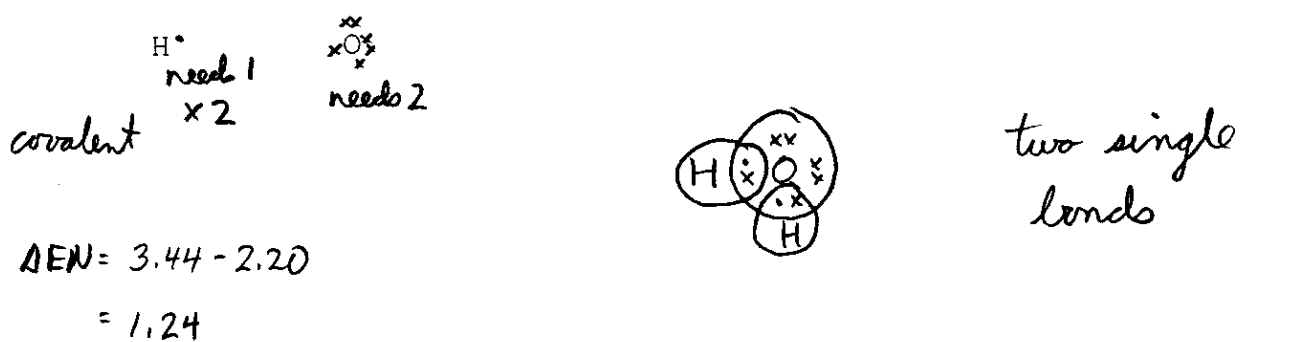
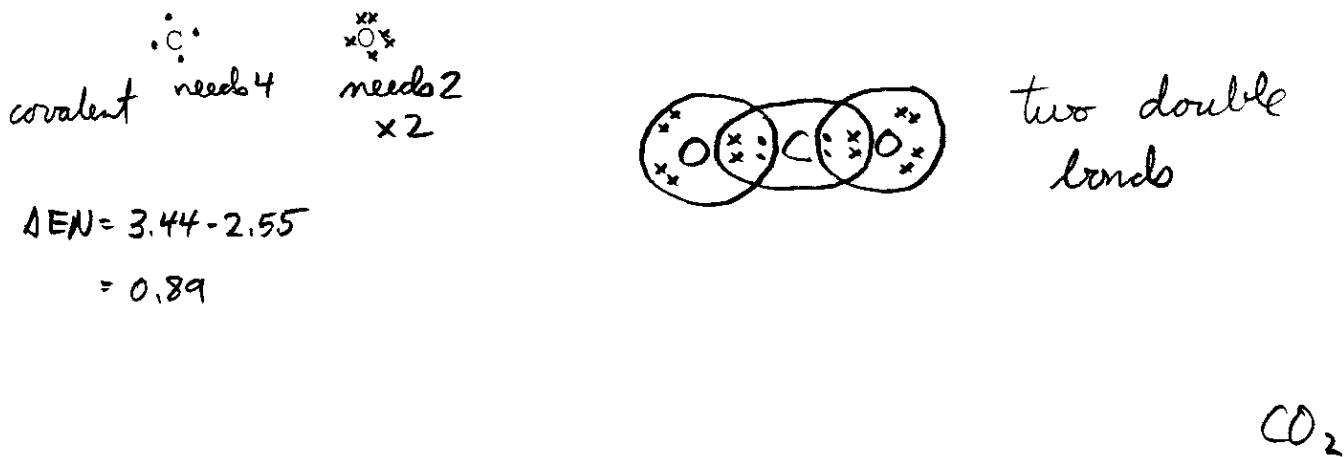
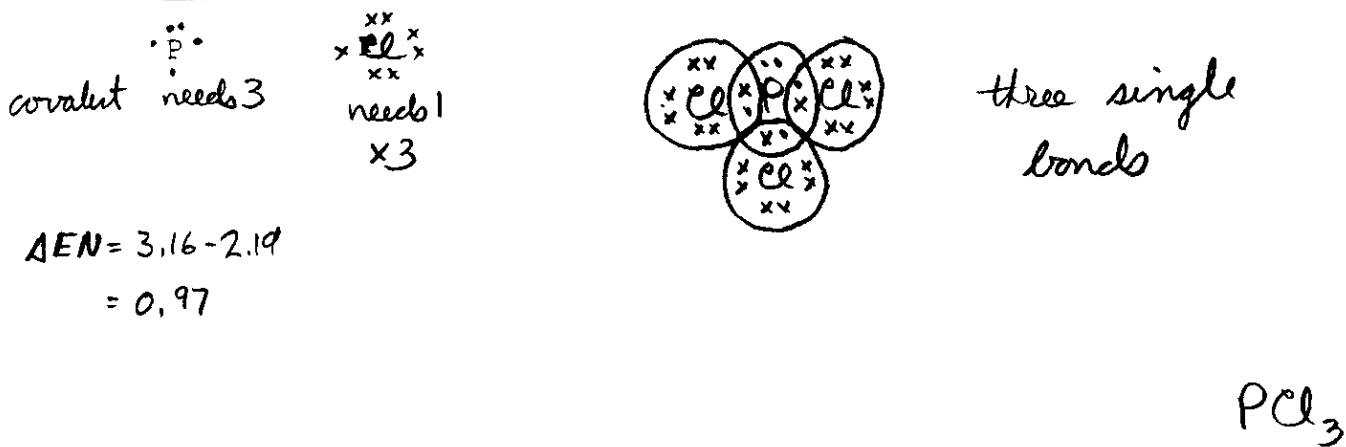
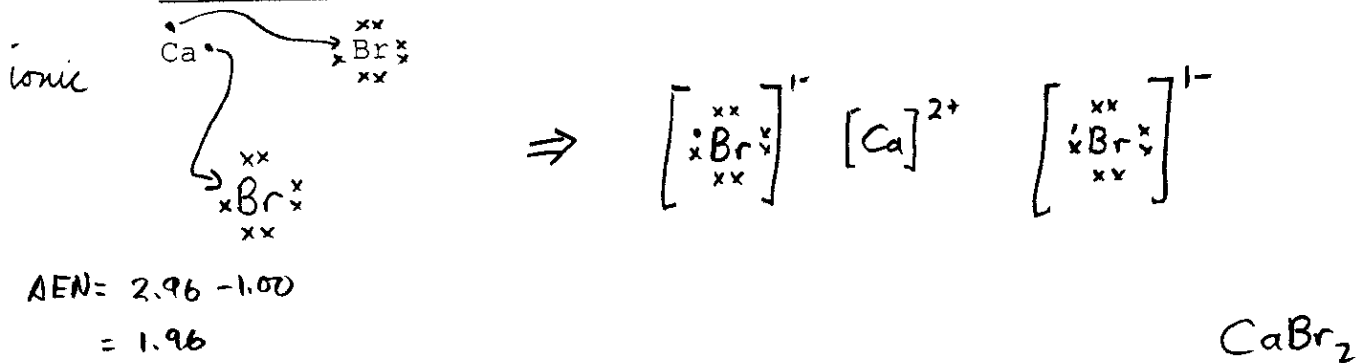
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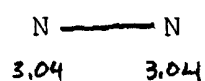
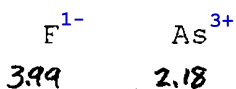
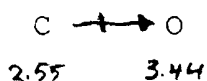
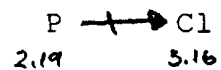
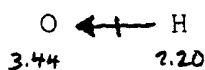
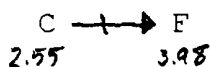
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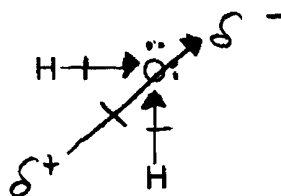
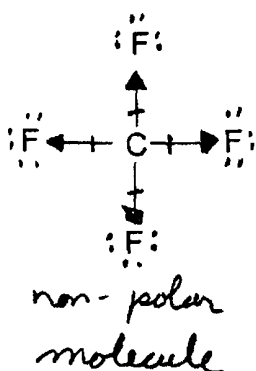


2. For each of the following pairs of atoms in covalent bonds
- look up and write the electronegativity below each atom
 - determine the direction of bond polarization and indicate this answer by adding arrowhead and etc. to each bond (i.e. should look like this $X \rightarrow Z$ or $X \leftarrow Z$ depending on the direction of polarization)



IONIC
 $\Delta \text{EN} = 1.81$

3. For the following molecules, add bond polarizations, determine net molecular polarizations and add δ^+ and δ^- as appropriate. Complete each diagram as appropriate.



4. For the formula CH_2F_2 , write two different possible stick structures and discuss the implication for net molecular polarization. Would this be an important consideration in the strength of intermolecular forces?

