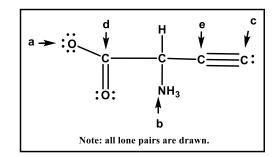
Names of all students (please print)		
CHEM 243 Organic Chemistry I	Points	(10 max)
Worksheet #1: September 9, 2024. Complete the following You can use a text book or your lecture video notes. You mu ONE sheet and turned in for a group grade.		
 Here is what you need to do today: You can join any table you want in room 477 or 481 or Each student should have their own worksheet. You want in room 477 or 481 or Each student should have their own worksheet. You want important that everyone in your group is discussined. At any time, you can request help from me or the Peelong One student can volunteer or be assigned to be the "rowrite that answer onto the "group" worksheet. Everyone in the group will add their name to the group in to Dr. Brush. Remember, Worksheet "Zero" is due today. 	will all work together answering g the same problem! Do not div r Leaders. ecorder". When you all agree to	ide up the work! an answer, the recorde
My worksheets are designed with the assump taken notes, and (3) have your		
(1) Formal Charge. In the structure drawn to the right, what is the Formal Charge for atoms: (a) (b) (c)	$a \rightarrow \vdots 0 \qquad H - N - 1$	CH ₃
what is the Formal Charge for atoms:		CH ₃
what is the Formal Charge for atoms: (a) (b) (c)	a → :O: H—N— CH Note: all lone pair	CH ₃ b s have been drawn.
what is the Formal Charge for atoms: (a) (b) (c) (2) Covalent Bonds, Hybridization, and Molecular Geome	a → O: H—N— CH Note: all lone pair try. For the structure drawn be 1 – (d):	CH ₃ b s have been drawn.
what is the Formal Charge for atoms: (a) (b) (c) (2) Covalent Bonds, Hybridization, and Molecular Geome What is the Hybridization and Geometry for atoms labeled (a)	a → O: H—N— CH Note: all lone pair try. For the structure drawn be 1 – (d):	CH ₃ b s have been drawn.
what is the Formal Charge for atoms: (a) (b) (c) (2) Covalent Bonds, Hybridization, and Molecular Geome What is the Hybridization and Geometry for atoms labeled (a) and and and	a → O: H—N— CH Note: all lone pair try. For the structure drawn be 1 – (d):	CH ₃ b s have been drawn.
what is the Formal Charge for atoms:	a → O: H—N— CH Note: all lone pair try. For the structure drawn be (a) O O (b)	CH ₃ b s have been drawn.

(3)	For	the	structure	drawn	at	the	right
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- (a) What is the Formal Charge for: (a) _____ (b) ____ (c) ____
- (b) What is the hybridization for: (b) _____ (d) ____ (e) ____
- (c) What is the molecular geometry for:

((h))	(d)	(e`
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(d) What is the total number of pi (π) covalent bonds in the structure drawn above _____

(4) Constitutional Isomers for C_4H_9Cl . In the boxes below, draw reasonable structures for <u>four</u> Constitutional isomers with the molecular formula C_4H_9Cl . You can draw either bond-line or zig-zag structures. One example is given for you.

(5) Comparing Organic Structures. Are the following pairs of organic compounds:

Constitutional Isomers