

Organic Chemistry Prep Workshop – Day 1

You Try Solutions

You Try 1-1

For each species below, determine the number of protons, neutrons, and electrons.



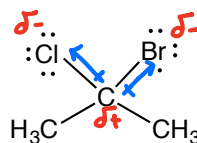
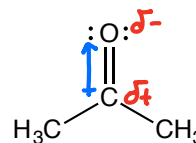
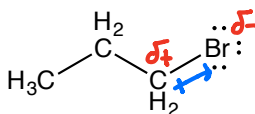
You Try 1-2

Write the abbreviated electron configuration for each of the following:



You Try 1-3

For each polar covalent bond below, write in “ δ^- , δ^+ ” notation and draw in the bond dipole arrows.



You Try 1-4

Draw a valid Lewis structure for each of the following * you may have other valid structures drawn.

C_3H_9N 	C_4H_6 	HCO_3^-
C_4H_8 (acyclic) 	C_4H_8 (ring) 	$C_2H_7O^+$

You Try 1-5

Draw two valid Lewis structure for each of the following

$C_5H_{13}N$ 	C_7H_{14} (with 5 C ring) C_7H_{14} (acyclic) 	$C_5H_8O_2$
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* There are many possibilities

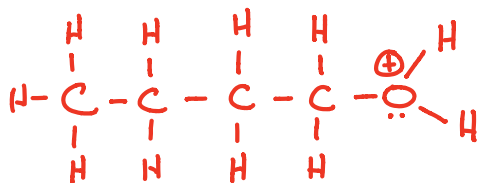
You Try 1-6

Determine the formal charge on each of the indicated atoms.

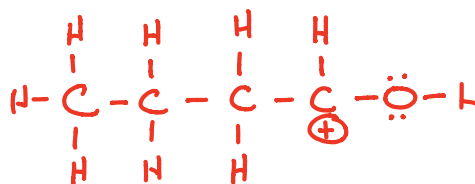
You Try 1-7

Draw a valid Lewis structure for each of the charged molecules below.

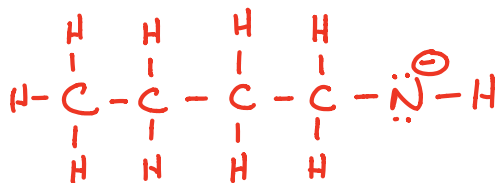
$C_4H_{11}O^+$ (+ on oxygen)



$C_4H_9O^+$ (+ on carbon)



$C_4H_{10}N^-$ (- on nitrogen)



$C_4H_{10}N^-$ (- on carbon)

