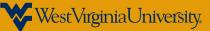
Organic Chemistry Prep Workshop – Day 3 You Try Solutions

You Try 3-1 Fill in all lone pairs on each of the molecules shown below. $\widehat{\oplus}$ $\widehat{\bigcirc}$ $\widehat{\bigcirc}$

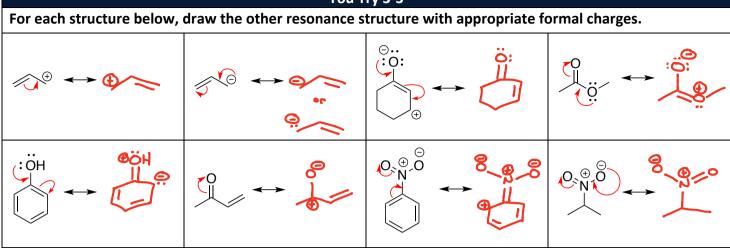
You Try	3-2
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For each structure below, determine whether or not the electron movement shown violates any rules of resonance.

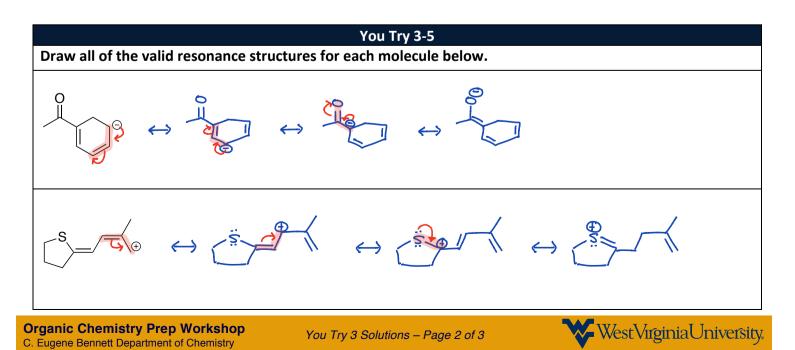
Tesonance.			
yes	No. This is valid	Yes	yes
⊕ N H H		∕~~∩.́H	, Ю. Н
will give N more then an octet		will give O more then an Octet	will give the C more then an octet
No. This is valid	No. This is valid	No. This is valid	yes.
	C ^E N	H₃C−N≡N	
(+)			This will break a single bund & Change Connectivity



You Try 3-3



You Try 3-4					
Explain why each electron movement shown does not give a valid resonance structure. Then, provide an					
alternative if possible.					
Don't move the TT-band between two C's by itself.	Gives a str with 3 Charges	Gives a str with 3 charges			
VALIO VALIO					
NH2 bonds (more than an octed)	i would give the C five bonds (more than an acted)	:0: :0: :0: :0: 			
NIL VALID SHL	have any resonance X structures.	value of et neg atom.			



You Try 3-6

For each set of resonance structures, circle the structure that is the major contributor to the resonance hybrid.

