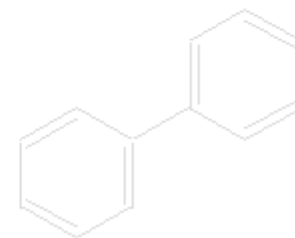
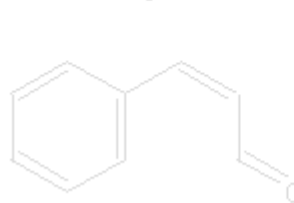
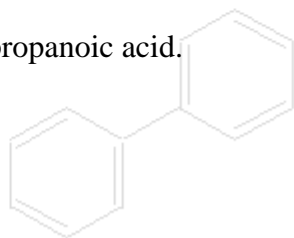
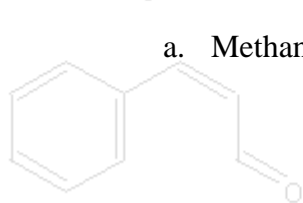


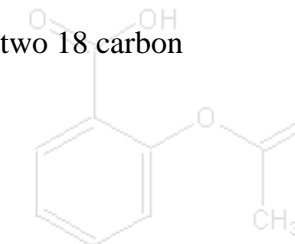
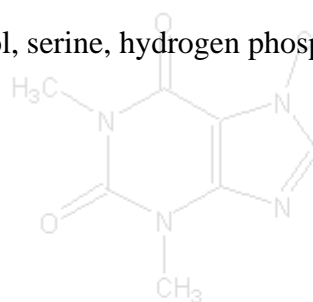
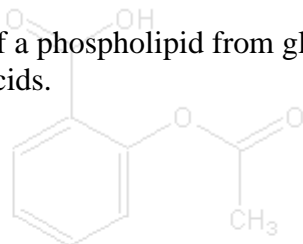
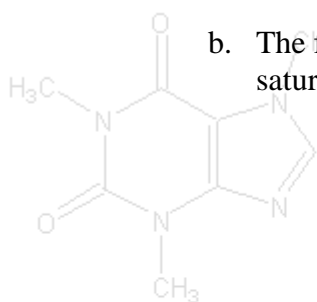
**CHEM106 PS-4 Due at the beginning of class**

1. Draw the Lewis structures for all reactants and products and show the mechanism of action for the condensation reaction between:

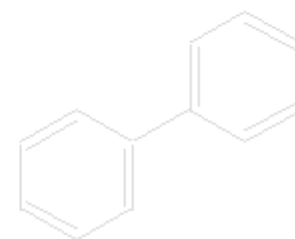
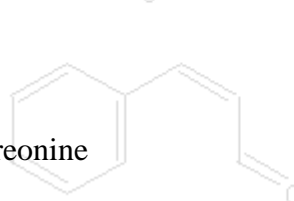
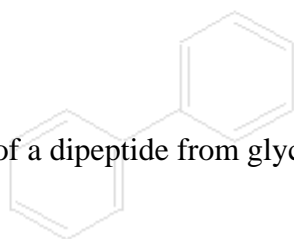
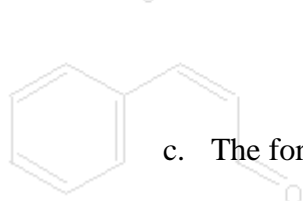
a. Methanol and propanoic acid.



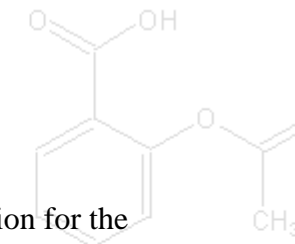
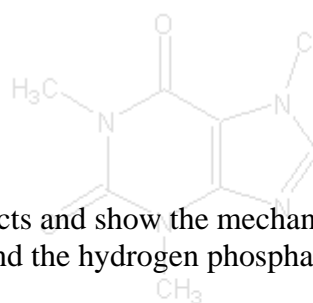
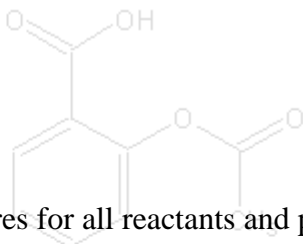
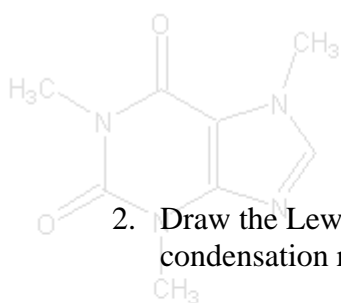
b. The formation of a phospholipid from glycerol, serine, hydrogen phosphate, and two 18 carbon saturated fatty acids.



c. The formation of a dipeptide from glycine and threonine



2. Draw the Lewis structures for all reactants and products and show the mechanism of action for the condensation reaction between the diphosphate ion and the hydrogen phosphate ion.



3. Draw the Lewis structures for all reactants and products and show the mechanism of action for the condensation reactions to make nylon 6, 6.

