1. Predict the regiochemistry and stereochemistry of the following cycloaddition reactions:

(a) \[ \text{allenyl} + \text{maleic anhydride} \]

(b) \[ \text{allenyl} + \text{acrylate} \]

(c) \[ \text{acrylonitrile} + \text{oxazoline} \]

(d) \[ \text{allenyl} + \text{2,4-dimethoxy-3-methylquinone} \]

2. Do problem #19 in Chapter 11 of Carey and Sundberg.