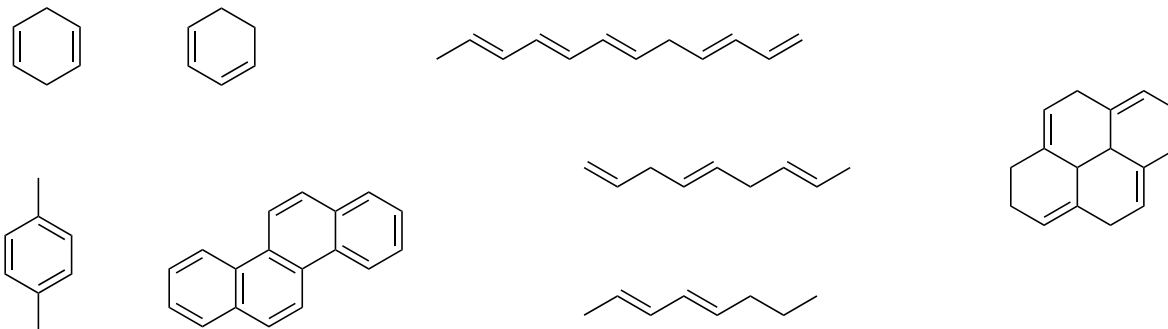
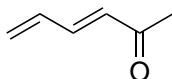


Problem Set #1: Chapter 20

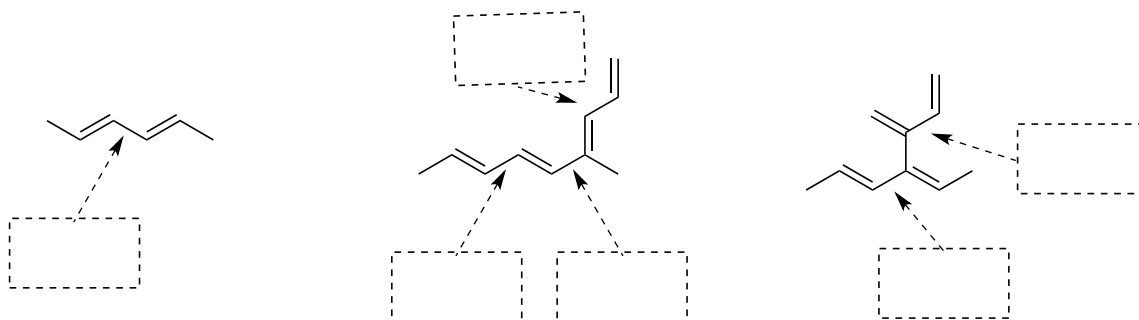
1. Which of the following compounds contain a conjugated polyene?



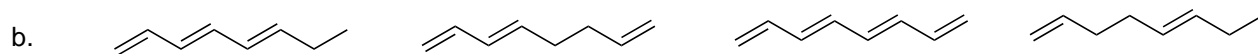
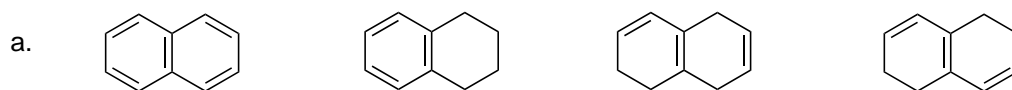
2. Write at least 3 valid resonance structures for the following conjugated system.



3. Characterize the following conjugated polyenes as *s-cis* or *s-trans*.



4. Which of the compounds in each group would you expect to have a higher λ_{max} UV absorption?



5. Complete the following transformations

