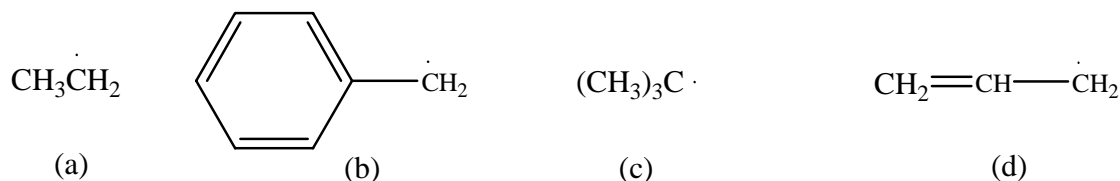


**CHEM 201**  
**Quiz # 6 Chapter 6: Free-Radical Reactions**

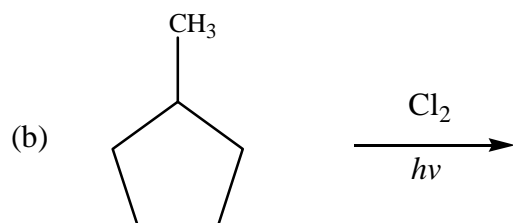
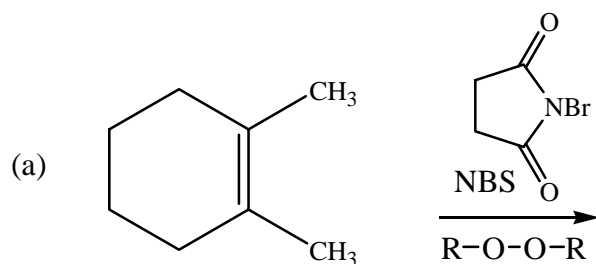
**Q1.** For the following radicals



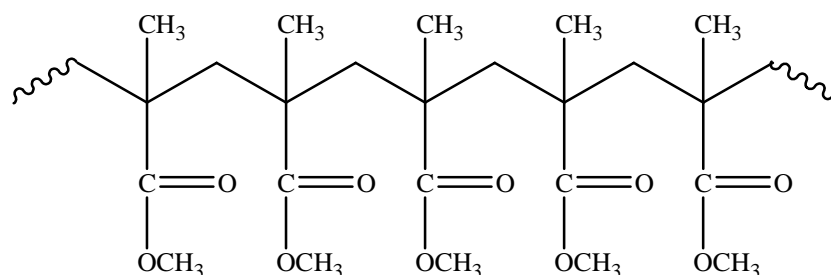
(i) Determine the type of each radical (methyl,  $1^\circ$ ,  $2^\circ$ , etc.,)

(ii) Rank them in decreasing order of stability (most stable radical first):

**Q2.** Draw the structure of the **major** product from each of the following free radical reactions:



**Q3.** Identify the monomer unit in the following polymer:



**Q4.** Write formulas for all possible dichloro products from the monochlorination of the following compound. Indicate the possible stereochemistry of each dichloro product.

