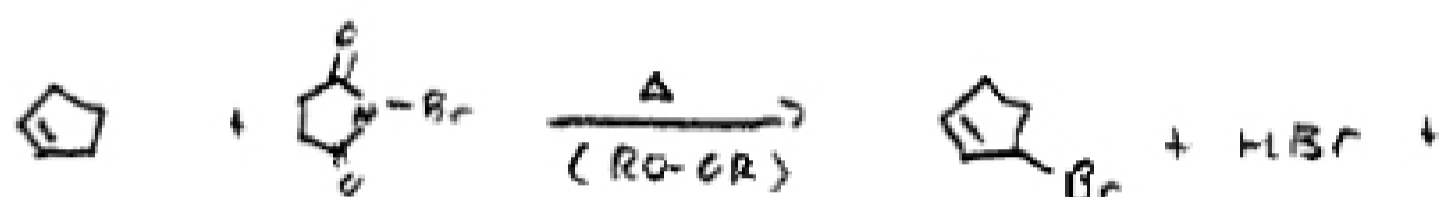
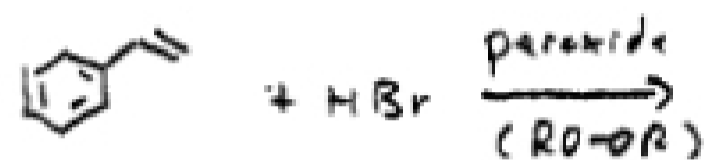
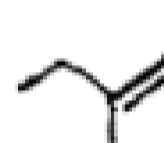
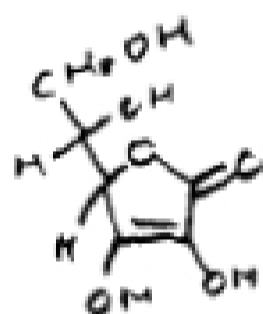


Quiz 7 Questions

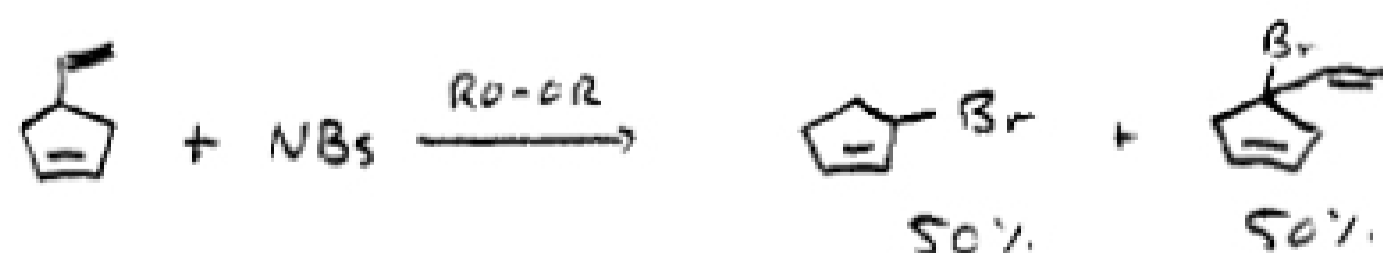
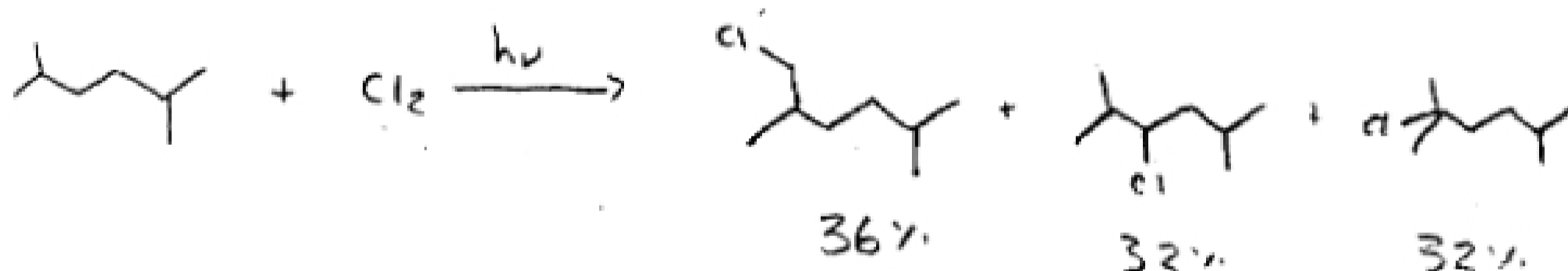
I.) Draw the mechanism.



II.) Draw the most stable radical formed by removing H \cdot from the following molecules. Draw all reasonable resonance structures.

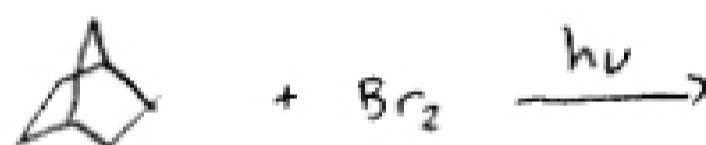
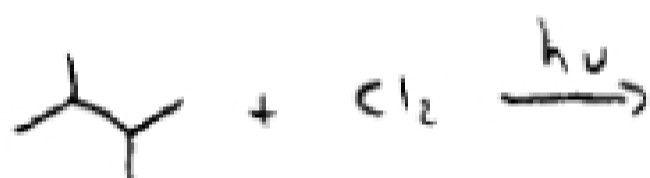
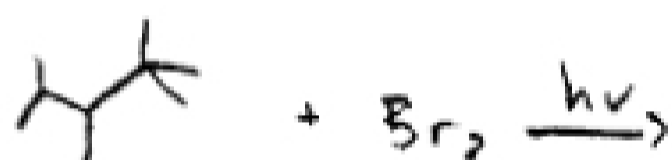
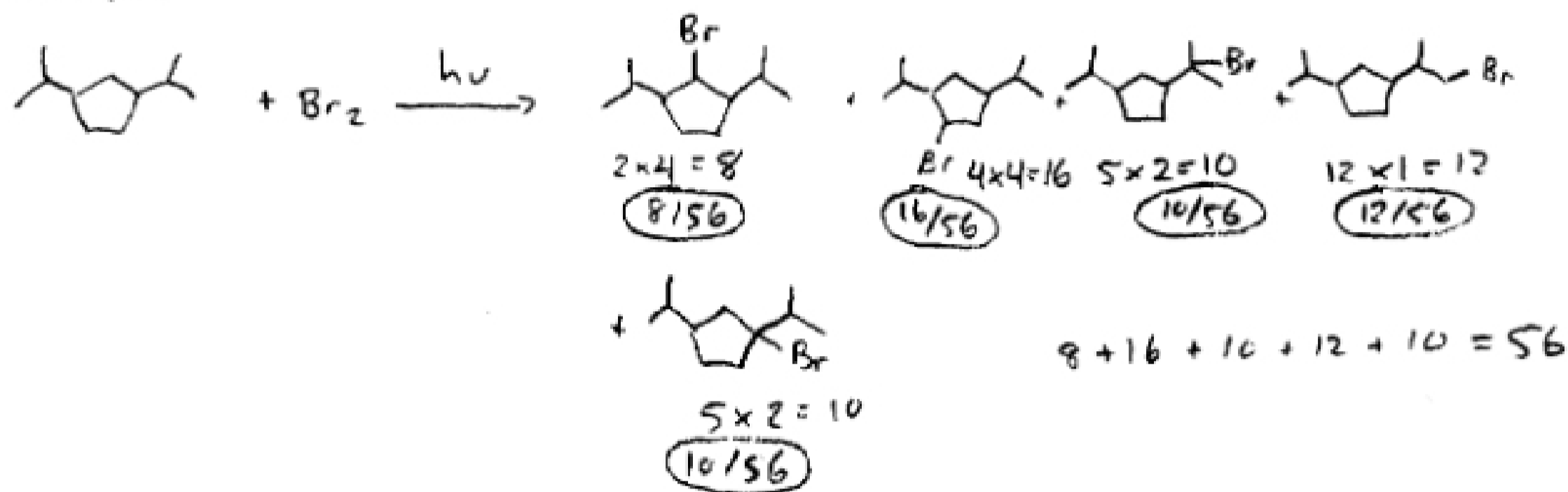


III.) What are the relative reactivities of allyl, benzyl, 3 $^\circ$, and 2 $^\circ$ positions in the following reactions. 1 $^\circ$ = 1.0.

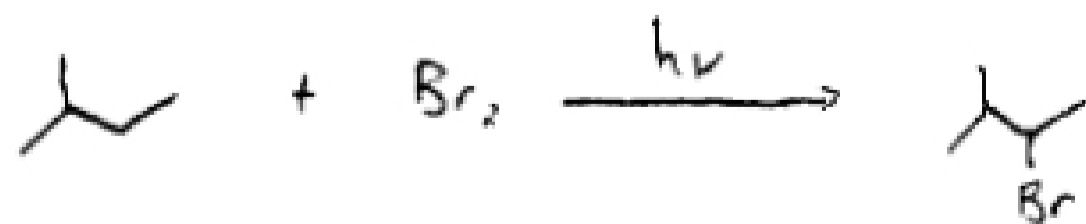
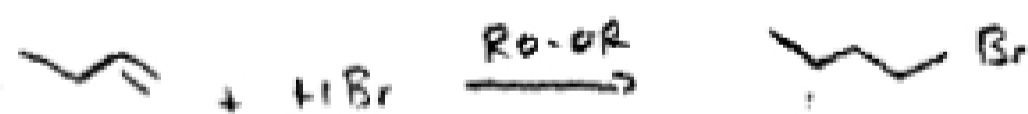


IV.) If the relative reactivities of 3° , 2° , and 1° positions is 5:4:1, what are the products and fractions of products in the following reactions?

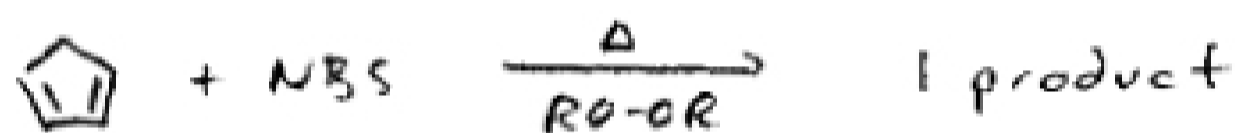
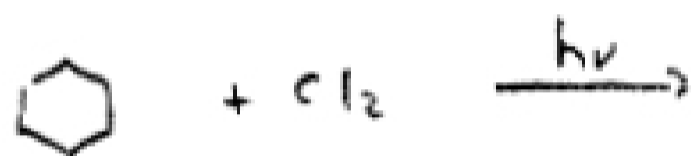
Example:



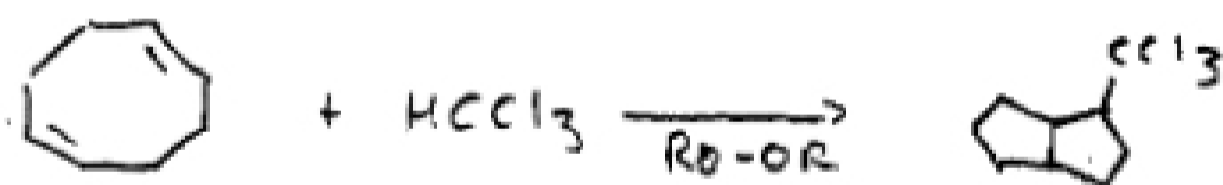
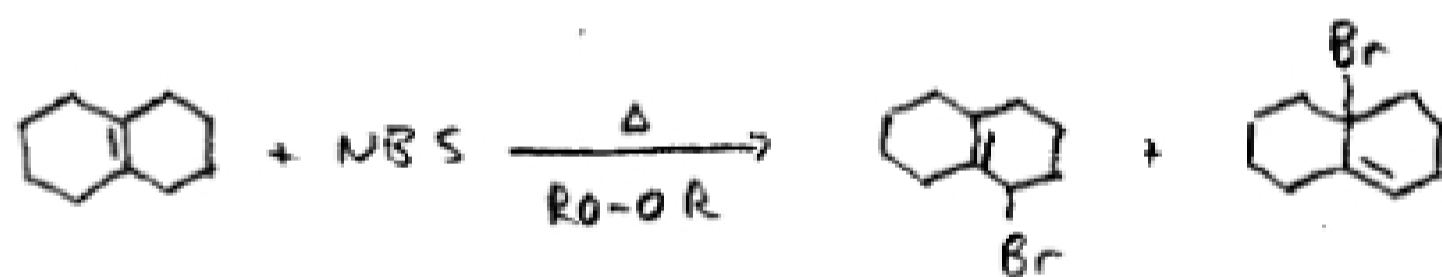
V.) Using BDEs, determine the enthalpies of reaction (ΔH_{rxn}) for each reaction below: (Use Table 3.2)



VI.) Predict the product (s). Show major products only.



VII.) Draw the mechanism



VIII.) Design a retrosynthesis / synthesis.

