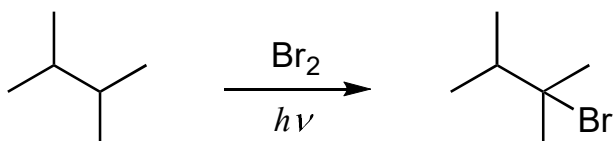
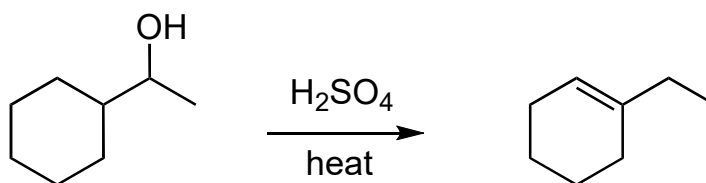


6A) (10 pts) When the given compound is treated with Br_2 and light, the major product formed is the monohalogenated compound shown. Provide the **most likely mechanism** for the formation of this product. Pay close attention to details such as electrons and curved arrows. If an excess of Br_2 is used, **predict the major dihalogenation product** that is expected (draw in box).



draw the expected major
dihalogenation product
(if excess Br_2 is used)

6B) (10 pts) Provide a complete mechanism for the following reaction. Pay close attention to details, including lone pairs, formal charges and the use of curved arrows.



6C) (6 pts) Provide a complete mechanism for the following reaction. Pay close attention to details, including lone pairs, formal charges and the use of curved arrows.

